

Sean M. Rovito

General Index

Section 1: 2011 Catalogue #1444-1699

Section 2: 2011 Journal

Section 3: 2011 Photo Log #6545-7914

Section 4: 2012 Catalogue #1700-2056

Section 5: 2012 Journal

Section 6: 2012 Photo Log #8339-10052

Section 7: 2013 Catalogue #2057-2326

Section 8: 2013 Journal

Section 9: 2013 Photo Log
#101-0274 to 101-1771



Rovito, Sean
2011

Catalogue

Sean M. Rovito

2011

Catalogue #1444-1699

Guatemala: Alta Verapaz, Baja Verapaz,
El Quiche, Izabal, Jutiapa, Santa Rosa

Mexico: Jalisco

Rovito, Sean

2010

Catalogue

(by rd)
Bethel, ca. 4.5 km ^NE of Sacristal-San Pedro Carchá road, 19.1 km NE
(by air) of center of Coban, Alta Verapaz, Guatemala
Mar. 15 15.61280°N, 90.27211°W [$\pm 6m$], 1425 m elev.
SMR1444 Bolitoglossa helmrichi subadult L-RNALater 3/16/11

3.6 km NE (by rd) of Laj ChimeI on road to San Pablo El Baldío,
Quiché, Guatemala
Mar. 16 15.46143°N, 90.78617°W [$\pm 6m$], 2448 m elev.
SMR1445 Bolitoglossa lincolni adult ♂ L-RNALater 3/16/11
1446 " " juv. " "

Feb-Mar SMR1448 Mesaspis moreletii adult L-RNALater 3/16/11
- Mesaspis collected in this general area recently by an ornithologist,
Frozen & left with CONAP in Uspantán

3.3 km NE (by rd) of Laj ChimeI on road to San Pablo El Baldío, Quiché, Guatemala
Mar. 16 15.45877°N, 90.79217°W [$\pm 5m$], 2456 m elev.
SMR1447 Anolis juv. ♂ L-RNALater 3/16/11

Chuxilic, 9.6 km NE (by rd) of center of Zacualpa on road to
Chojlomquiej, Quiché, Guatemala
Mar. 18 15.06151°N, 90.84853°W [$\pm 6m$], 2349 m elev.
SMR1449 Bolitoglossa cuchumatana adult ♂ RNALater - L 3/18/11
1450 " " adult ♂ " "
1451 " " juv. " "
1452 Bolitoglossa meliana adult ♂ " "
1453 Plectrohyla subadult " "

1. The first part of the paper discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for the success of any business and for the protection of the interests of all parties involved. The author argues that without accurate records, it is impossible to make informed decisions or to identify areas for improvement.

2. The second part of the paper describes the various methods used to collect and analyze data. It includes a detailed discussion of the different types of data that can be collected, such as sales figures, customer feedback, and market trends. The author also explains how this data can be used to identify patterns and trends, and how it can be used to make predictions about future performance.

3. The third part of the paper focuses on the importance of communication in the business world. It discusses the different ways in which information can be shared, such as through meetings, reports, and newsletters. The author argues that effective communication is essential for ensuring that all parties are kept up-to-date and for fostering a sense of teamwork and collaboration.

4. The fourth part of the paper discusses the importance of innovation in the business world. It explains how innovation can be used to develop new products, services, and processes, and how it can be used to gain a competitive edge. The author also discusses the challenges of innovation, such as the need for funding and the risk of failure, and offers some suggestions for how to overcome these challenges.

5. The fifth part of the paper discusses the importance of ethics in the business world. It explains how ethical behavior can lead to long-term success and how unethical behavior can lead to reputational damage and legal consequences. The author also discusses the different ways in which ethics can be promoted, such as through training and the establishment of a code of conduct.

6. The sixth part of the paper discusses the importance of sustainability in the business world. It explains how sustainable practices can lead to long-term success and how unsustainable practices can lead to environmental damage and financial loss. The author also discusses the different ways in which sustainability can be promoted, such as through the use of green technology and the establishment of a sustainable business model.

7. The seventh part of the paper discusses the importance of customer service in the business world. It explains how excellent customer service can lead to increased sales and customer loyalty, and how poor customer service can lead to lost sales and negative reviews. The author also discusses the different ways in which customer service can be improved, such as through the use of technology and the establishment of a customer service team.

8. The eighth part of the paper discusses the importance of financial management in the business world. It explains how sound financial management can lead to long-term success and how poor financial management can lead to financial failure. The author also discusses the different ways in which financial management can be improved, such as through the use of budgeting and the establishment of a financial team.

9. The ninth part of the paper discusses the importance of human resources management in the business world. It explains how effective human resources management can lead to increased productivity and employee satisfaction, and how poor human resources management can lead to high turnover and low morale. The author also discusses the different ways in which human resources management can be improved, such as through the use of recruitment and the establishment of a human resources team.

10. The tenth part of the paper discusses the importance of legal compliance in the business world. It explains how compliance with laws and regulations can lead to long-term success and how non-compliance can lead to legal consequences and reputational damage. The author also discusses the different ways in which legal compliance can be promoted, such as through the use of legal counsel and the establishment of a legal team.

Rovito, Sean
2011

Catalogue

Chimatatzatz, 10.9 km NW (by rd) of center of Zacualpa on road to
San Andrés Sajcabajá, Quiché, Guatemala

Mar. 18 15.07842°N, 90.90864°W [$\pm 6m$], 2287m elev.

SMR1454	<u>Bolitoglossa</u> <u>cuchumatana</u>	adult ♀	RNA Later-L	3/18/11
1455	"	adult ♂	"	"
1456	"	adult ♂	"	"
1457	"	adult	"	"
1458	"	juv.	"	"

100 ^m ^N (by ^{air}) of Bethel, 5.0 km NE (by rd) of Sacristal-San Pedro
Carchá road, km NE (by air) of Center of Cobán, Alta Verapaz, Guatemala

May 17 15.61299°N, 90.27317°W [$\pm 50m$], 1430m elev.

Barcode MVZ 130252

SMR1459 Bolitoglossa helmrichi subadult RNA Later-L 5/18/11

100 ^m S (by rd) of Bethel, 5.0 km NE (by rd) of Sacristal-San Pedro Carchá
road, 18.9 km NE (by air) of center of Cobán, Alta Verapaz, Guatemala

May 17 15.61012°N, 90.27279°W [$\pm 8m$], 1433m elev.

130253 SMR1460 B. helmrichi adult RNA Later-L 5/18/11

130254 1461 " " adult " "

130255 1462 Anolis cabanensis adult ♀ " "

130256 1463 " " adult ♀ " "

130257 1464 " " subadult ♂ " "

May 18 1465 B. helmrichi adult ♀ RNA Later- 5/19/11

130258

Rovito, Sean

2011

Catalogue

250 km SE (by air) of Bethel, 5.0 km NE (by rd) of Sacristal-San Pedro Carchá road, 18.8 km NE (by air) of center of Coban, Alta Verapaz, Guatemala

May 18 15.60893°N, 90.27209°W [$\pm 9m$], 1449m elev.

Barcode MVZ 130259 SMR1466 Anolis cobanensis adult RNALater-L 5/18/11
130360 1467 " " subadult ♂ " "

350 km SE (by air) of Bethel, 5.0 km NE (by rd) of Sacristal-San Pedro Carchá road, 18.8 km NE (by air) of center of Coban, Alta Verapaz, Guatemala

May 18 15.60822°N, 90.27143°W [$\pm 13m$], 1496m elev.

130361 SMR1468 Craugastor adult RNALater-L 5/19/11
to MVZ: tissue of

130362 CRVA2647 Anolis adult ♂ RNALater-L 5/19/11

Bethel, 5.0 km NE (by rd) of Sacristal-San Pedro Carchá road, 19.0 km NE (by air) of center of Coban, Alta Verapaz, Guatemala

May 18 15.61100°N, 90.27274°W [$\pm 8m$], 1430m elev.

130363 SMR1469 Smilisca cyanosticta adult ♂ RNALater-L 5/19/11

100 km S (by rd) of Bethel, 5.0 km NE (by rd) of Sacristal-San Pedro Carchá road, 18.9 km NE (by air) of center of Coban, Alta Verapaz, Guatemala

May 18 15.61012°N, 90.27271°W [$\pm 8m$], 1433m elev.

130364 SMR1470 Bolitoglossa helmrichi adult ♀ RNALater-L 5/19/11

130365 1471 " " adult " "

130366 1472 " " subadult RNALater-L, I 5/19/11

130367 1473 Anolis cobanensis adult ♂ RNALater-L 5/19/11

130368 1474 " " adult ♂ " "

Rovito, Sean
2011

Catalogue

Km 157 on CA-14 between Unión Barrios and Puntón, Baja Verapaz, Guatemala

May 19

15.20057°N, 90.20630°W [$\pm 6m$], 1613m elev.

Barcode MVZ 131224

SMR1475 Ptychocheilus hypomykter metamorph RNA Later-L 5/21/11

131225

1476 " " adult " "

131226

1477 Rana maculata " adult ♀ " "

131227

1478 Anolis cobanensis " adult ♀ " "

- all but SMR1477 died in transit from Guatemala City (ca. 15:00), fixed at 18:00

Bethel, 5.0 km NE (by rd) of Sacristal-San Pedro Carchá road, 19.0 km NE (by air) of center of Cobán, Alta Verapaz, Guatemala

May 21

SMR1479 Henicorhina leucophrys ♂ 13.5g no fat

testes 5x4mm, 6x4mm, skull 90% ossified, insect parts in stomach

tissues: Mu, Li, He, Br, Eye, Ki, testes, lung, intestine, blood, blood smear

Bethel, 5.0 km NE (by rd) of Sacristal-San Pedro Carchá road, 19.0 km NE (by air) of center of Cobán, Alta Verapaz, Guatemala

May 21

15.61100°N, 90.27274°W [$\pm 8m$], 1430m elev.

131228

SMR1480 Smilisca cyanastictis adult ♂ RNA Later-L 5/23/11

131229

1481 Craugastor xucanebi adult ♀ " "

1.4 km S (by air) of Bethel, 5.0 km NE (by rd) of Sacristal-San Pedro Carchá road, Montañas Secansin, 17.6 km NE (by air) of Cobán, Alta Verapaz, Guatemala

May 22

15.59791°N, 90.27433°W [$\pm 8m$], 1657m elev.

131230

SMR1482 Bolitoglossa helmrichi adult ♀ RNA Later-L 5/23/11

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2011

Catalogue

1.4 Km S (by air) of Bethel, 5.0 Km NE (by rd) of Sacristal - San Pedro
Carchá road, 17.8 Km NE (by air) of center of Coban, Alta Verapaz, Guatemala

May 22 15.59955°N, 90.27451°W [$\pm 6m$], 1554m elev.

1312345 CRVA 2663 Rhadinea juv. ^{EtOH} RNALater - L 5/23/11

- RNALater tissue to MVZ, EtOH tissue + specimen to MUSHNAT

On road from San Cristobal Verapaz to Uspantán

May 23

131234 CRVA 2664 Spilotes pullatus adult ♂ ^{EtOH} RNALater - L 5/23/11

- DOR; RNALater tissue to MVZ, EtOH specimen + tissue to MUSHNAT

Rovito, Sean
2011

Catalogue

1.7 km S (by air) of Bethel, 5.0 km NE (by rd) of Sacristal - San Pedro Carchá road, Montañas Secansín, 17.6 km NE (by air) of Cobán, Alta Verapaz, Guatemala

May 22 15.59557°N, 90.27277°W [± 9 m], 1619m elev.

Barcode MVZ 131231 SMR1483 Craugastor bocourti juvenile RNALater - L 5/23/11

1.9 km SE (by air) of Bethel, 5.0 km NE (by rd) of Sacristal - San Pedro Carchá road, Montañas Secansín, 17.7 km NE (by air) of Cobán, Alta Verapaz, Guatemala

May 22 15.59557°N, 90.26942°W [± 6 m], 1707m elev.

131232 SMR1484 Cryptotriton sp. nov. RNALater - L, I 5/23/11
- EtoH tissue to MVSHNAT

131233 SMR1485 Craugastor bocourti juv. RNALater - L 5/23/11

3.5 km NE (by rd) of Laj Chimal on road to San Pablo el Baldío, Quiché, Guatemala

May 25 15.46103°N, 90.78761°W [± 7 m], 2476m elev.

131236 SMR1486 Anolis crassulus adult ♀ RNALater - L 5/25/11

131237 1487 " " adult ♀ " "

131238 1488 Sceloporus taeniornemis adult ♂ " "

131239 1489 " " juv. " "

131240 1490 Tropidodipsos fischeri " "

131241 1491 Rhadinia godmani " "

4.9 km NE (by rd) of Laj Chimal on road to San Pablo el Baldío, Quiché, Guatemala

May 27 15.46670°N, 90.77641°W [± 6 m], 2345m elev.

~~SMR1492~~ SMR1492 Henicohina leucophrys adult ♂ testes 5x4mm, 5x4mm
study skin, Li, He, Ki, testes, eye, brain, lung, intestine - RNALater blood smear
blood - lysis buffer

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2011

Catalogue

3.5 km NE (by rd) of Laj Chimed on road to San Pablo el Baldío, Quiché, Guatemala
May 25 15.46208°N, 90.78811°W [$\pm 12m$], 2490m elev.
Barcode MVZ 131242 SMR 1493 Bolitoglossa hartwegi juv. RNALater-L, I 5/27/11

15.46103°N, 90.78761°W [$\pm 7m$], 2476m elev.

131243	SMR 1494	<u>Anolis crassulus</u>	adult ♂	RNALater-L	5/27/11
131244	1495	" "	adult ♀	"	"
131245	May 26	1497 <u>Bolitoglossa lincolni</u>	adult ♂	"	"
131246		1498 " "	adult ♂	"	"
131247		1499 <u>B. hartwegi</u>	adult ♂	"	"
131248		1500 " "	adult	"	"
131249		1501 " "	subadult	"	"
131250		1502 " "	juv.	RNALater-L, I	5/27/11

Laj Chimed, 4.9 km N (by rd) of center of Uspantan, Quiché, Guatemala
May 26 15.465672°N, 90.80752°W [$\pm 100m$], 2130m elev.
131251 SMR 1496 Bolitoglossa cuchumatana adult ♀ RNALater-L 5/27/11

4.9 km NE (by rd) of Laj Chimed on road to San Pablo el Baldío, Quiché, Guatemala
May 27 15.46670°N, 90.77641°W [$\pm 6m$], 2345m elev.
131252 SMR 1503 Bufo bocourti adult RNALater-L 5/27/11

4.9 km NE (by rd) of Laj Chimed on road to San Pablo el Baldío, Quiché, Guatemala
May 27 15.46670°N, 90.77641°W [$\pm 6m$], 2345m elev.
SMR 1504 Chlorospingus ophthalmicus wt - 16.1g, light fat, skull 100% unossified,
male, testes < 1x1mm, brood patch not present, no molt
tissues - RNALater Mu, Li, Ki, He, Br, Eye, Lung, Intestine EtOH - Mu

Rovito, Sean
2011

Catalogue

4.9 km NE (by rd) of Laj Chinel on road to San Pablo el Baldío, Quiché, Guatemala

May 27 15.46670°N, 90.77641°W [$\pm 6m$], 2345m elev.

Barcode MVZ	131253	SMR1505	<u>Bolitoglossa lincolni</u>	adult ♂	RNA Later-L	5/29/11
	131254	1506	"	adult ♂	"	"
	131255	1507	<u>Craugastor brocchi?</u>	adult	"	"
	131256	1508	"	juv.	"	"
	131257	1509	<u>Anolis crassulus</u>	adult ♂	"	"
	131258	1510	"	adult ♂	"	"

Cerro Macalajau, 3.0 km N (by air) of center of Usantán, Quiché, Guatemala

May 28 15.37494°N, 90.87603°W [$\pm 8m$], 2353m elev.

	131259	SMR1511	<u>Bolitoglossa cuchumatana</u>	juv.	RNA Later-L, I	5/29/11
	131260	1512	"	juv.	"	"
	131261	1513	"	juv.	"	"

Cerro Macalajau, 3.7 km NW (by air) of center of Usantán, Quiché, Guatemala

May 28 15.37554°N, 90.88921°W [$\pm 7m$], 2762m elev.

	131262	CRVA2690	<u>Dendrotriton kekchiorum</u>	adult ♀	RNA Later-L, I	5/29/11
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- RNA Later tissue to MVZ, ETOH tissue + specimen to MUSANAT

	131263	SMR1514	<u>Bolitoglossa rostrata</u>	subadult	RNA Later-L, I	5/29/11
	131264	1515	"	juv.	"	"
	131265	1516	"	juv.	RNA Later - whole animal	5/29/11
	131266	1517	"	juv.	"	"
→ tissue = specimen for SMR1516+1517						

4.9 km NE (by rd) of Laj Chinel on road to San Pablo el Baldío, Quiché, Guatemala

May 28 15.46670°N, 90.77641°W [$\pm 6m$], 2345m elev.

	131267	SMR1518	<u>Mesaspis moreletii</u>	adult ♂	RNA Later-L	5/29/11
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Rovito, Sean
2011

Catalogue

Aldea Unión Alde Mayo Xecoyen, La Gloria, Quiché, Guatemala

May 29 15.55730°N, 90.82951°W [$\pm 7m$], 737m elev.

MVZ Barcode 131312 SMR1519 Smilisca baudini adult ETOH RNALater - L 5/30/11

131313 CRVA2698 Ninia diademata adult " "

- RNALater tissues to MVZ, ETOH tissues to MUSHNAT

3.8 Km SW (by air) of La Gloria on road to Palo Viejo hydroelectric dam, Quiché, Guatemala

May 29 15.52942°N, 90.84722°W [$\pm 7m$], 1120m elev.

131314 SMR1520 Plectrohyla hartwegi adult ♀ RNALater - L 5/30/11

131315 1521 Hylid sp. (P. hartwegi?) metamorph RNALater - tail clip 5/30/11

3.0 Km N (by rd) of Palo Viejo hydroelectric dam, on road to La Gloria, Quiché, Guatemala

May 29 15.50342°N, 90.86447°W [$\pm 7m$], 1526m elev.

131316 SMR1522 Bolitoglossa cuchumatana adult ♀ RNALater - L 5/30/11

131317 1523 " " adult " "

131318 1524 " " subadult RNALater - L, I 5/30/11

131319 1525 " " subadult " "

131320 1526 Ptychohyla hypomykter adult ♀ RNALater - L 5/30/11

131321 1527 Craugastor xucanebi adult ♂ " "

131322 1528 " " adult " "

2.6 Km N (by rd) of Palo Viejo hydroelectric dam on road to La Gloria, Quiché, Guatemala

May 29 15.50299°N, 90.86166°W [$\pm 7m$], 1508m elev.

1313223 CRVA 2710 Nyctanolis pernix juv. ETOH RNALater - L, I 5/30/11

- RNALater tissue to MVZ, ETOH tissue + specimen to MUSHNAT

Rovito, Sean
2011

Catalogue

2.6 Km N (by rd) of Palo Viejo hydroelectric dam on road to La Gloria,
Quiche, Guatemala

May 29 15.50299°N, 90.86166°W [$\pm 7m$], 1508m elev.

Barcode MVZ 131324	SMR1529	<u>Bolitoglossa cuchumatana</u>	adult	RNALater-L	5/30/11
131325	1530	"	adult	"	"
131326	1531	"	adult	"	"
131327	1532	<u>Craugastor lineatus</u>		"	"
131328	1533	"	"	"	"
131329	1534	"	"	"	"
131330	1535	<u>Anolis f. cobanensis</u>	adult ♀	"	"

1.9 Km N (by rd) of Palo Viejo hydroelectric dam on road to La Gloria,
Quiche, Guatemala

May 29 15.50503°N, 90.85629°W [$\pm 10m$], 1504m elev.

131331	SMR 1536	<u>Batrachoseps aurifer</u>	juv.	ETOH RNALater - L	5/30/11
131332	CRVA2715	<u>Atropoides mexicanus</u>	juv. ♂	"	"
- RNALater tissues to MVZ, ETOH tissues to MUSHNAT					

Laj Chimal, 24.9 Km N (by rd) of Uspantan, Quiche, Guatemala

May 29 15.45615°N, 90.80757°W [$\pm 100m$], 2100m elev.

131333	CRVA2717	<u>Gastrophryne elegans</u>	adult	ETOH RNALater - L	5/30/11
May 30,	SMR1537	<u>Rana brownorum</u>		"	"
131334	- RNALater tissues to MVZ, ETOH tissues to MUSHNAT				
	- collected by guide (Luis)				

THE HISTORY OF THE

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Rovito, Sean
2011

Catalogue

2.1 Km NW (by rd) of Chimatatz on road to Pasojoc, Sierra de Chuacús, Quiché, Guatemala

June 4

15.07470°N, 90.91234°W [$\pm 8m$], 2336m elev.

Barcode MVZ 131423

SMR 1538 Bolitoglossa mario adult ♀ RNALater-L G/4/11

1539 " " adult ♀ ETOH-L G/4/11

131424

1540 " " adult ♀ RNALater-L G/4/11

1541 " " adult ♂ ETOH-L G/4/11

131425

1542 " " adult ♂ RNALater-L G/4/11

1543 " " juv. ETOH-L, I G/4/11

131426

1544 Bolitoglossa cuchumatana juv. RNALater-L, I G/4/11

1545 " " juv. ETOH-L, I G/4/11

131546

1546 B. mario adult ♀ RNALater-L G/5/11

1547 " " adult ETOH-L G/5/11

131547

1548 B. cuchumatana adult ♂ RNALater-L G/5/11

June 5

1549 B. mario adult ♀ ETOH-L G/5/11

131548

1550 " adult ♀ RNALater-L G/5/11

1551 " juv. ETOH-L, I G/5/11

131549

1552 " adult ♂ RNALater-L G/5/11

1553 B. cuchumatana juv. ETOH-L, I G/5/11

131581-131587

1554 Turdus rufitorques? juv. sex unknown 65g wt

light fat, defeathered breast patch, molt on lesser wing coverts, tail coverts, back & sides, skull 100% unossified, reproductive

organs not found. RNALater - Mu, Li, He, Ke, Re Or, Br, Eye, Lung, Intestine

ETOH - muscle

131700

1555 B. cuchumatana juv. RNALater-L, I G/5/11

1556 " " ETOH-L, I G/6/11

Rovito, Sean
2011

Catalogue

2.1 km NW (by rd) of Chimatutz on road to Pasojoc, Sierra de Chuacús, Quiché, Guatemala

June 5

15.07470°N, 90.91234°W [$\pm 8m$], 2336 m elev.

SMR 1557 Bolitoglossa cuchumatana adult ♀ EtoH-L 6/6/11

Barcode MVZ 131694

1558 " " adult ♂ RNALater-L 6/6/11

1559 Bolitoglossa morio adult ♂ EtoH-L 6/6/11

131695

1560 " " adult ♂ RNALater-L 6/6/11

1561 " " adult ♂ EtoH-L 6/6/11

June 6

15.07534°N, 90.90958°W [$\pm 6m$], 2307 m elev.

131696

SMR 1562 Bolitoglossa cuchumatana adult ♀ RNALater-L 6/7/11

1563 " " adult ♀ EtoH-L 6/7/11

131697

1564 " " adult ♂ RNALater-L 6/7/11

1565 " " adult ♂ EtoH-L 6/7/11

131698

1566 " " adult ♂ RNALater-L 6/7/11

1567 " " adult EtoH-L 6/7/11

131699

1568 " " adult ♂ RNALater-L 6/7/11

June 7

15.07470°N, 90.91234°W [$\pm 8m$], 2336 m elev.

131755

SMR 1569 Anolis adult ♀ RNALater-EtoH -L 6/7/11

15.07588°N, 90.91387°W [$\pm 6m$], 2283 m elev.

SMR 1570 Bolitoglossa morio adult ♂ RNALater-EtoH L, I 6/8/11

Rovito, Sean

2011

Catalogue

Barcode 100m N of Estación Biológica Chandler Robbins, Carboneras, Cerro San Gil, Mpio. Livingston, Depto. Izabal, Guatemala

Aug. 8 15.63437°N, 88.82816°W [$\pm 9m$], 360m elev.

152733 SMR1571 Oedipina elongata juv. ^{EtOH} RNALater - L, I, T 8/9/11

152734 1572 Craugastor chas ^{EtOH} RNALater - L, I 8/9/11

500m NE of Estación Biológica Chandler Robbins, Carboneras, Cerro San Gil, Mpio. Livingston, Depto. Izabal, Guatemala

Aug. 8 15.63776°N, 88.82593°W [$\pm 7m$], 481m elev.

152735 SMR1573 Bothriechis schlegelii juv. ^{EtOH} RNALater - L 8/9/11

800m NE of Estación Biológica Chandler Robbins, Carboneras, Cerro San Gil, Mpio. Livingston, Depto. Izabal, Guatemala

Aug. 8 15.63824°N, 88.82331°W [$\pm 7m$], 485m elev.

152736 SMR1574 Anolis capito juv. ^{EtOH} RNALater - L 8/9/11

100m N of Estación Biológica Chandler Robbins, "

Aug. 8 15.63437°N, 88.82816°W [$\pm 9m$], 360m elev.

152737 SMR1575 Craugastor sandersoni juv. ^{EtOH} RNALater - L, I 8/9/11

Estación Biológica Chandler Robbins, "

Aug. 9 15.63366°N, 88.82841°W [$\pm 10m$], 380m elev.

152738 SMR1576 Sphaerodactylus millepunctatus adult ^{EtOH} RNALater - L 8/9/11

Rovito, Sean
2011

Catalogue

Barcode # 500m NE of Estación Biológica Chandler Robbins, Carboneras, ^{Cerro San Gil} Mpio. Livingston, Depto. Izabal, Guatemala
Aug. 9 15.63776°N, 88.82593°W [$\pm 7m$], ³⁶⁰ m elev.
152739 SMR1577 Anolis uniformis adult ♂ RNALater-L 8/9/11

600m N of Estación Biológica Chandler Robbins, Carboneras, ^{Cerro San Gil} Mpio. Livingston, Depto. Izabal, Guatemala
152740 15.63877°N, 88.82963°W [$\pm 9m$], 386m elev.
Aug. 9 SMR1578 Bufo valliceps juv. ^{EtOH} RNALater-L 8/9/11

300m NW of Estación Biológica Chandler Robbins, "
Aug. 9 15.63647°N, 88.82935°W [$\pm 8m$], 376m elev.
152741 SMR1579 Anolis uniformis adult ♀ RNALater-L 8/10/11

600m N of Estación Biológica Chandler Robbins, "
Aug. 9 15.63877°N, 88.82963°W [$\pm 9m$], 386m elev.
152742 SMR1580 Anolis uniformis adult ♀ RNALater-L 8/10/11
152743 SMR1581 Micrurus diastema 63.5cm SVL adult ♀ ^{EtOH} RNALater-L 8/10/11

200m W of Estación Biológica Chandler Robbins, "
Aug. 9 15.63344°N, 88.82979°W [$\pm 10m$], 314m elev.
152744 SMR1582 Craugastor sandersoni adult RNALater-L 8/9/11
152745 1583 " " juv. RNALater-L 8/9/11
152746 1584 " " adult RNALater-L 8/10/11
152747 1585 " " adult "
152748 1586 " " juv. "
152749 1587 " " adult "

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Catalogue

Cerro San Gil

Barcode # 200m W of Estación Biológica Chandler Robbins, Carboneras, Mpio.
Livingston, Depto. Izabal, Guatemala

Aug. 9 15.63344°N, 88.82979°W [$\pm 10m$], 314m elev.
152750 SMR1588 Bufo campbelli juv. RNALater-L 8/10/11
152751 1589 Smilisca baudinii adult ♀ Etoh RNALater-L 8/10/11
152755 1593 Lepidophyma flavimaculatum juv. " "

Rio Carboneras, 200m W of where trail to Estación Biológica Chandler Robbins
crosses river, Carboneras, Cerro San Gil, Mpio. Livingston, Depto. Izabal, Guatemala

Aug. 9 15.63103°N, 88.82922°W [$\pm 50m$], 290m elev. GPS from Google Earth

152752 SMR1590 Bufo marinus adult RNALater-L 8/10/11

100m NW of Estación Biológica Chandler Robbins, "

152753 15.63415°N, 88.82968°W [$\pm 8m$], 324m elev.
Aug. 9 SMR1591 Imantodes cenchoa juv. RNALater-L 8/10/11
152754 1592 Craugastor laticeps adult " "

100m N of Estación Biológica Chandler Robbins, "

Aug. 9 15.63437°N, 88.82816°W [$\pm 9m$], 360m elev.
152756 SMR1594 Anolis uniformis juv. RNALater-L 8/10/11

100m NW of Estación Biológica Chandler Robbins, "

Aug. 10 15.63415°N, 88.82968°W [$\pm 8m$], 324m elev.
152757 SMR1595 Ameiva festiva adult ♂ RNALater-L 8/10/11

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Barcode # 600m N of Estación Biológica Chandler Robbins, Carboneras, ^{Cerro San Gil} Mpio. Livingston, Depto. Izabal, Guatemala

Aug. 10 15.63877°N, 88.82963°W [$\pm 9m$], 386m elev.

152758 SMR1596 Ptychocheilus ganchi juv. RNALater-L 8/12/11

152759 1597 Sphenomorphus cherriei " "

152760 1598 Anolis uniformis " "

Estación Biológica Chandler Robbins, "

Aug. 10 15.63366°N, 88.82841°W [$\pm 10m$], ~~410~~³⁸⁰m elev.

152761 SMR1599 Craugastor laticeps adult RNALater-L 8/12/11

152762 1600 " " juv. " "

200m W of Estación Biológica Chandler Robbins, "

152763 15.63344°N, 88.82979°W [$\pm 10m$], 314m elev.

Aug. 10 SMR1601 Bolitoglossa ~~enteros~~ ^{nymph} adult RNALater-L 8/12/11

Rio Carboneras at trail to Estación Biológica Chandler Robbins, 200m SE of biological station, Carboneras, Cerro San Gil, Mpio. Livingston, Depto. ^{Guatemala} Izabal,

Aug. 10 15.63191°N, 88.82780°W [$\pm 8m$], 291m elev.

152764 SMR1602 Siban nebulatus adult ^{ETOH} RNALater-L 8/12/11

Estación Biológica Chandler Robbins, "

Aug. 10 15.63366°N, 88.82841°W [$\pm 10m$], 380m elev.

152765 SMR1603 Batrachoseps valliceps juv. RNALater-L 8/12/11

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Barcode # ~~200~~ 200 m SW (by air) of high point of Cerro San Gil on trail to Samaria,
Cerro San Gil, Mpio. Livingston, Depto. Izabal, Guatemala

Aug. 11 15.66743°N, 88.78896°W [$\pm 17m$], 12⁵⁰ m elev.

152766 SMR1604 Craugastor campbelli adult RNALater-L 8/12/11

152767 1605 Craugastor aphanus adult " "

152768 1606 " " juv. " "

900m SW (by air) of high point of Cerro San Gil on trail to Samaria,
Cerro San Gil, Mpio. Livingston, Depto. Izabal, Guatemala

Aug. 11 15.66493°N, 88.79372°W [$\pm 6m$], 1176m elev.

152769 SMR1607 Craugastor aphanus adult RNALater-L 8/12/11

152770 1608 " " adult " "

152771 1609 Bolitoglossa dofleini juv. " "

152772 1610 Bolitoglossa ^{B nymph} ~~adult~~ adult ♂ " "

3.2km SW (by air) of high point of Cerro San Gil on trail below Samaria,
Cerro San Gil, Mpio. Livingston, Depto. Izabal, Guatemala

Aug. 11 15.64490°N, 88.80991°W [$\pm 10m$], 707m elev.

152773 SMR1611 Therapsactylus rapicaudus juv. RNALater-L 8/12/11

200m NE of Estación Biológica Chandler Robbins, Carboneras, Cerro San Gil,
Mpio. Livingston, Depto. Izabal, Guatemala

Aug. 12 15.63457°N, 88.82693°W [$\pm 10m$], 406m elev.

152774 SMR1612 Tropidodipsas sartori adult ♂ ^{EtoH} RNALater-L 8/12/11

- Killed in mammal snap trap

Name		Address		City		State	
John Doe		123 Main St		New York		NY	
Jane Smith		456 Elm St		Los Angeles		CA	
Bob Johnson		789 Oak St		Chicago		IL	
Alice Brown		101 Pine St		Houston		TX	
David Wilson		202 Cedar St		Phoenix		AZ	
Emily Davis		303 Birch St		Philadelphia		PA	
Frank Miller		404 Spruce St		San Antonio		TX	
Grace Lee		505 Willow St		San Diego		CA	
Henry White		606 Ash St		Dallas		TX	
Ivy Green		707 Hickory St		Denver		CO	
Jack Black		808 Maple St		San Jose		CA	
Karen Gray		909 Poplar St		Austin		TX	
Leo King		1010 Sycamore St		Portland		OR	
Mia Hall		1111 Walnut St		San Francisco		CA	
Noah Scott		1212 Chestnut St		Seattle		WA	
Olivia Adams		1313 Elm St		Boston		MA	
Peter Baker		1414 Oak St		New Orleans		LA	
Quinn Carter		1515 Pine St		Nashville		TN	
Samuel Evans		1616 Cedar St		San Luis Obispo		CA	
Tina Foster		1717 Birch St		Honolulu		HI	
Uma Garcia		1818 Spruce St		Portland		ME	
Victor Hernandez		1919 Willow St		San Francisco		CA	
Wendy Ivers		2020 Ash St		San Jose		CA	
Xavier Jones		2121 Hickory St		San Francisco		CA	
Yara King		2222 Maple St		San Francisco		CA	
Zoe Lee		2323 Poplar St		San Francisco		CA	

Name		Address		City		State	
Adam Miller		2424 Sycamore St		San Francisco		CA	
Bella Scott		2525 Walnut St		San Francisco		CA	
Caleb Adams		2626 Chestnut St		San Francisco		CA	
Diana Baker		2727 Elm St		San Francisco		CA	
Ethan Carter		2828 Oak St		San Francisco		CA	
Fiona Evans		2929 Pine St		San Francisco		CA	
Gavin Foster		3030 Cedar St		San Francisco		CA	
Hannah Garcia		3131 Birch St		San Francisco		CA	
Isaac Hernandez		3232 Spruce St		San Francisco		CA	
Julia Ivers		3333 Willow St		San Francisco		CA	
Kaleb Jones		3434 Ash St		San Francisco		CA	
Liam King		3535 Hickory St		San Francisco		CA	
Mia Lee		3636 Maple St		San Francisco		CA	
Nora Scott		3737 Poplar St		San Francisco		CA	
Oscar Adams		3838 Sycamore St		San Francisco		CA	
Pamela Baker		3939 Walnut St		San Francisco		CA	
Quinn Carter		4040 Chestnut St		San Francisco		CA	
Rory Evans		4141 Elm St		San Francisco		CA	
Sara Foster		4242 Oak St		San Francisco		CA	
Tina Garcia		4343 Pine St		San Francisco		CA	
Uma Hernandez		4444 Cedar St		San Francisco		CA	
Victor Ivers		4545 Birch St		San Francisco		CA	
Wendy Jones		4646 Spruce St		San Francisco		CA	
Xavier King		4747 Willow St		San Francisco		CA	
Yara Lee		4848 Ash St		San Francisco		CA	
Zoe Scott		4949 Hickory St		San Francisco		CA	

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Catalogue

Barcode # Estación Biológica Chandler Robbins, Carboneras, Cerro San Gil, Mpio.
Livingston, Depto. Izabal, Guatemala

Aug. 12 15.63366°N, 88.82841°W [$\pm 10m$], 380m elev.

152775 SMR1613 Lepidophyma flavimaculatum adult ♀ RNALater-L 8/12/11

100m N of Estación Biológica Chandler Robbins, "

Aug. 12 15.63437°N, 88.82816°W [$\pm 9m$], 360m elev.

152776 SMR1614 Basiliscus vittatus juv. RNALater-L 8/12/11

Estación Biológica Chandler Robbins, "

Aug. 12 15.63366°N, 88.82841°W [$\pm 10m$], 380m elev.

152848 SMR1615 Sphaerodactylus glaucus adult RNALater-L 8/12/11

600m N of Estación Biológica Chandler Robbins, "

Aug. 12 15.63877°N, 88.82963°W [$\pm 9m$], 386m elev.

152849 SMR1616 Anolis capito adult ♀ RNALater-L 8/13/11

152850 1617 Craugastor laticeps adult EtoH RNALater-L 8/13/11

200m NE of Estación Biológica Chandler Robbins, "

Aug. 12 15.63457°N, 88.82693°W [$\pm 10m$], 406m elev.

152852 SMR1618 Bolitoglossa ^{nympha} ~~antennalis~~ adult ♀ RNALater-L 8/13/11

152853 1619 Anolis rodriguezii adult ♀ "

100m N of Estación Biológica Chandler Robbins, "

Aug. 13 15.63437°N, 88.82816°W [$\pm 9m$], 360m elev.

152854 SMR1620 Bufo campbelli juv. RNALater-L 8/13/11
-found dead in pitfall trap

1. Introduction		1
2. Methodology		2
3. Results		3
4. Discussion		4
5. Conclusion		5
6. References		6
7. Appendix		7
8. Bibliography		8
9. Index		9
10. Glossary		10
11. Acknowledgements		11
12. About the Author		12
13. Contact Information		13
14. Disclaimer		14
15. Copyright		15
16. Privacy Policy		16
17. Terms of Service		17
18. Sitemap		18
19. Feedback		19
20. Footer		20

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Catalogue

field station de Arribas
Barcode # Finca Firmeza, Reserva Biológica Sierra Caral, Mpio. Morales, Dept.
Izabal, Guatemala

Aug. 15 15.40716°N, 88.69594°W [$\pm 6m$], 513m elev.

SMR1621 Anolis ~~lemurinus~~ lemurinus adult ♀ EtoH
RNALater-L 8/16/11

field station
0.5 Km SE of Finca Firmeza, "
Aug. 15 15.40485°N, 88.69362°W [$\pm 9m$], 543m elev.

SMR1622 Craugastor chac adult RNALater-L 8/16/11

SMR1628 Sphenomorphus cherriei adult " "

field station
1.0 km SE (by air) of Finca Firmeza, "
Aug. 15 15.39914°N, 88.69135°W [$\pm 15m$], 595m elev.

SMR1623 Duellmanohyla soralis adult ♂ RNALater-L 8/16/11

1624 " " adult ♂ " "

1625 " " adult ♀ " "

ID changed
based on DNA seq.
date March 7, 2012

→ 1626 Ptychocheilus sp. adult EtoH
Bromelichthys bromeliana RNALater-L, I 8/16/11

1627 Craugastor adult EtoH
RNALater-L 8/16/11

0.5 Km SE of Finca Firmeza field station, "
Aug. 16 15.40485°N, 88.69362°W [$\pm 9m$], 543m elev.

SMR1628 Sphenomorphus cherriei adult RNALater-L 8/16/11

SMR1629 on
next page →

Finca Firmeza field station, "
Aug. 16 15.40716°N, 88.69594°W [$\pm 6m$], 513m elev.

SMR1630 Parthidium nasutum adult ♀ EtoH
RNALater-L 8/107/11

SMR1631 Anolis biporcatus adult ♂ " "

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Barcode # 0.4 km E (by air) of Finca Firmeza Field Station, Reserva Biológica de Antibios Sierra
Caral, Mpio. Morales, Depto. Izabal, Guatemala

Aug. 16 15.40686°N, 88.69403°W [+8m], WGS84, 519m elev.

SMR1629 Glyphorhynchus spirurus adult ♂ RNALater-H, M, K, Br., testes, L
skull 15% ossified, slight fat, testes tiny (1x1mm) ETOH-L, M
15.5g wt, stomach contents: plant matter + insect parts net 4

2.5 km S (by air) of Finca Firmeza field station, Reserva Biológica ^{de Antibios} Sierra Caral,
Mpio. Morales, Depto. Izabal, Guatemala

Aug. 16 15.38485°N, 88.69554°W [+7m], 959m elev.

SMR1632	<u>Craugastor laticeps</u>	adult	RNALater-L	8/17/11
1633	" "	adult	"	"
1634	" "	adult	"	"
1635	<u>Craugastor chac</u>	adult	"	"
1636	" "	juv.	"	"
1637	<u>Duellmanohyla soralia</u>	adult ♀	"	"
1638	<u>Bolitoglossa nympha</u>	adult ♀	ETOH RNALater-L, I	8/17/11
1639	<u>Imantodes cenchoa</u>		ETOH RNALater-L	8/17/11
1640	<u>Sphenomorphus cherriei</u>	adult	RNALater-L	8/17/11

1.5 km S (by air) of Finca Firmeza field station, "

Aug. 16 15.39367°N, 88.69183°W, 850m elev. [error not recorded]

SMR1641	<u>Craugastor nephrens</u>	adult	ETOH RNALater-L	8/17/11
1642	<u>Craugastor laticeps</u>	adult	RNALater-L	8/17/11

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Barcode # 0.8 km NE (by air) of Finca Firmeza field station, Reserva Biológica Sierra ^{de Amilias} Caral, Mpio. Morales, Depto. Izabal, Guatemala

Aug. 16 15.41319°N, 88.69150°W [error not recorded], 312m elev.

SMR1643 Bufo campbelli juv. RNALater-L 8/17/11

Finca Firmeza field station, "

Aug. 17 15.40716°N, 88.69594°W [$\pm 6m$], 513m elev.

SMR1644 Anolis uniformis adult ♂ RNALater-L 8/18/11

0.4 Km SE (by air) of Finca Firmeza field station, "

Aug. 17 15.40423°N, 88.69305°W [$\pm 8m$], 568m elev.

SMR1645 Sphenomorphus cherriei adult ♀ RNALater-L 8/18/11

2.5 Km S (by air) of

Finca Firmeza field station, "

Aug. 17 15.38485°N, 88.69554°W [$\pm 7m$], 959m elev.

SMR1646 Bolitoglossa nympha adult ♂ Etoil RNALater-L, I 8/18/11

1647 Anolis uniformis adult ♀ RNALater-L 8/18/11

Finca Firmeza field station, "

Aug. 17 15.40716°N, 88.69594°W [$\pm 6m$], 513m elev.

SMR1648 Bufo campbelli adult RNALater-L 8/18/11

0.3 Km SE (by air) of Finca Firmeza field station, "

Aug. 18 15.40518°W, 88.69374°W [$\pm 8m$], 537m elev.

SMR1649 Craugastor laticeps juv. RNALater-L 8/18/11

-Found by Raiza at net 7, DOA

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Barcode # Finca Firmeza field station, Reserva Biológica ^{de Antibios} Sierra Caral, Mpio. Morales,
Depto. Izabal, Guatemala

Aug. 18 15.40716°N, 88.69594°W [$\pm 6m$], 513 m elev.

SMR1650 Ameiva festiva

adult ♀ RNALater - L 8/18/11

0.3 Km SE (by air) of Finca Firmeza field station, Reserva Biológica de Antibios
Sierra Caral, Mpio. Morales, Depto. Izabal, Guatemala

Aug. 18 15.40518°N, 88.69374°W [$\pm 8m$], 537 m elev.

SMR1651 Microtes deganius juv. ♀ EtoH-L, M RNALater - HMK, L, Br, R.O.

wt 9.9, skull 20% ossified, body molt, ovary smooth seeds in stomach

little fat study skin

2.5 km S (by air) of Finca Firmeza field station, "

Aug. 18 15.38485°N, 88.69554°W [$\pm 7m$], 959 m elev.

SMR1652 Bolitoglossa nympha

adult ♂

RNALater - L, I 8/19/11

1653

"

"

juv.

"

"

1654 Imantodes cenchrus

adult ♀

RNALater - L 8/19/11

1655 Corytophanes cristatus

juv.

EtoH
RNALater - L 8/19/11

Finca Firmeza field station, "

Aug. 18 15.40716°N, 88.69594°W [$\pm 6m$], 513 m elev.

SMR1656 Oedipina elongata

adult ♀

EtoH
RNALater - L, I 8/19/11

SMR1657 Anolis rodriguezi

adult ♂

EtoH
RNALater - L 8/19/11

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Barcode # 0.4 km SE (by air) of Finca Firmeza field station, Reserva Biológica de Antibios
Sierra Canal, Mpio. Morales, Depto. Izabal, Guatemala

Aug. 19 15.40394°N, 88.69347°W [± 10 m], 653 m elev.

SMR1658 Andis capito adult ♂ RNA Later - L 8/20/11

1.3 km S (by air) of Finca Firmeza field station, "

Aug. 19 15.39164°N, 88.69248°W [± 8 m], 907 m elev.

SMR1659 Oxybelis aeneus adult EtoH RNA Later - L 8/21/11

2.0 km S (by air) of Finca Firmeza field station, "

Aug. 19 15.38911°N, 88.69317°W [± 7 m], 996 m elev.

SMR1660 Bolitoglossa dofleini juv RNA Later - L 8/20/11

1661 Sphaerodactylus ~~sp~~ glaucus juv RNA Later - T 8/20/11

1.0 km NW (by air) of "La Piedra" (central peak of Volcán Suchitan), Volcán
Suchitan, Quebracho, Mpio. Santa Caterina Mita, Depto. Jutiapa, Guatemala

Aug. 23 14.40411°N, 89.78120°W [± 7 m], 1891 m elev.

153645 SMR1662 Bolitoglossa suchitanensis adult ♀ RNA Later - L 8/24/11

153646 1663 " " adult EtoH RNA Later - L 8/24/11

153647 1664 " " juv. RNA Later - L, I 8/24/11

153648 1665 " " juv. EtoH RNA Later - L, I 8/24/11

0.8 km NW (by air) of "La Piedra" (central peak of Volcán Suchitan), "

Aug. 23 14.40227°N, 89.78120°W [± 7 m], 1949 m elev.

153649 SMR1666 B. suchitanensis adult RNA Later - L 8/24/11

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Barcode # 0.4 km NW (by air) of "La Piedra" (central peak of Volcán Suchitan), Volcán Suchitan, Quebracho, Mpio. Santa Catarina Mita, Depto. Jutiapa, Guatemala

Aug. 24 14.39876°N, 89.77972°W [$\pm 9m$], 2021m elev.

153650 SMR1667 Bolitoglossa suchitanensis adult EtoH RNALater-L 8/25/11

1.4 km N (by air) of "La Piedra" (central peak of Volcán Suchitan), "

Aug. 24 14.40899°N, 89.78107°W [$\pm 9m$], 1748m elev.

153651 SMR1668 Bufo coccifer juv. RNALater-L, I 8/25/11

~~153652~~ 1669 " " juv. EtoH-L, I 8/25/11

153652 1670 Rana maculata adult EtoH RNALater-L 8/25/11

0.9 km NW (by air) of "La Piedra" (central peak of Volcán Suchitan), "

Aug. 25 14.40332°N, 89.78117°W [$\pm 6m$], 1937m elev.

153653 SMR1671 Crotalus simus adult ♀ EtoH RNALater-L 8/26/11
- 90cm SVL

0.5 km NW (by air) of "La Piedra" (central peak of Volcán Suchitan), "

Aug. 25 14.39990°N, 89.77960°W [$\pm 8m$], 1999m elev.

153654 SMR1672 B. suchitanensis adult RNALater-L 8/25/11

Stream

0.25 km NW (by air) of "La Piedra" (central peak of Volcán Suchitan), "

Aug. 25 14.39875°N, 89.77750°W [$\pm 9m$], 1910m elev.

153655 SMR1673 B. suchitanensis adult EtoH RNALater-L 8/25/11

153656 1674 " " adult RNALater-L 8/25/11

153657 1675 " " adult EtoH RNALater-L 8/25/11

153658 1676 " " adult RNALater-L 8/25/11

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Catalogue

Barcode # 0.4 km NW (by air) of "La Piedra" (central peak of Volcan Suchitan),
Volcan Suchitan, Quebracho, Mpio. Santa Catarina Mita, Depto. Jutiapa, Guatemala

Aug. 25 14.39876°N, 89.77972°W [$\pm 9m$], 2021m elev.

153659 SMR1677 Bolitoglossa suchitanensis adult EtoH RNALater-L 8/26/11

153660 1678 " " adult RNALater-L 8/26/11

153661 1679 " " adult EtoH RNALater-L 8/26/11

1.4 km N (by air) of "La Piedra" (central peak of Volcan Suchitan), " "

Aug. 25 14.40899°N, 89.78107°W [$\pm 9m$], 1748m elev.

153662 SMR1680 Rana maculata adult RNALater-L 8/26/11

1681 Rana maculata adult EtoH-L 8/26/11

153663 1682 Bufo adult EtoH RNALater-L 8/26/11

153664 1683 ~~Scinax~~ Hypopachus variolosus adult ♀ RNALater-L 8/26/11

153665 1684 " " adult ♂ RNALater-L 8/26/11

1685 " " adult EtoH-L 8/26/11

1686 " " adult EtoH-L 8/26/11

153666 1687 Scinax stautleri adult ♂ RNALater-L 8/26/11

153667 1688 Scinax stautleri adult ♂ EtoH RNALater-L 8/26/11

Aug. 26 1689 " " adult ♂ EtoH ~~RNALater-L~~ 8/26/11

153695 1690 Rana maculata adult RNALater-L 8/26/11

153696 1691 Bufo caccifer adult ♂ EtoH RNALater-L 8/26/11

- SMR 1691 has malformed mouth, missing left eye

- SMR 1682 has broken left leg + injured left paratoid

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Catalogue

6.8 Km W (by rd) of El Fresnillo - Los Mazos road on road from Cerrito de los Puercos to El Refugio, NE slope Nevado de Colima, Mpio. Ciudad Guzman, Jalisco, Mexico

Oct. 23 19.59070°N, 103.55231°W [$\pm 5m$], 2363m elev.

SMR 1692 Geophis bicolor adult ♂ RNALater-L 10/26/11

6.2 Km W (by rd) "

Oct. 24 19.59050°N, 103.54830°W [$\pm 8m$], 2284m elev.

SMR 1693 Plestiodon brevirostris adult ♂ RNALater-L 10/26/11

5.0 Km SW (by air) of El Fresnillo, NE slope Nevado de Colima, Mpio. Ciudad Guzman, Jalisco, Mexico

Oct. 24 19.58531°N, 103.55506°W [$\pm 7m$], 2450m elev.

SMR 1694 Eleutherodactylus nivicolimae juv. RNALater- 10/26/11
angustadigitornis (based on Tom Devitt's phylogeny) 5/8/2013

4.9 Km SW (by air) of El Fresnillo, NE slope Nevado de Colima, Mpio. Ciudad Guzman, Jalisco, Mexico

Oct. 24 19.58382°N, 103.55254°W [$\pm 9m$], 2437m elev.

SMR 1695 Plestiodon brevirostris adult ♂ RNALater-L 10/26/11

1696 " " adult ♂ RNALater-L 10/26/11

4.6 Km SW (by air) of El Fresnillo, NE slope Nevado de Colima, Mpio. Ciudad Guzman, Jalisco, Mexico

Oct. 25 19.58317°N, 103.54611°W [$\pm 10m$], 2256m elev.

SMR 1697 Plestiodon brevirostris adult RNALater-L 10/26/11

1698 " " ~~adult~~ juv. RNALater-L 10/26/11

1699 Geophis bicolor adult ♀ RNALater-L 10/26/11

1943

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# SMR1479	Locality: Bethel		Lat:
PREPARATION TYPE: 21 May 2011 Sean Michael Rovito	Province/Country: Alta Verapaz, Guatemala		Long:
☒ Skin ☐ Skeleton ☒ Digital 486-Julia	Date collected: 21 May 2011	Collector:	Altitude:
	☐ ♀ ☒ ♂ ☐ Unk.	Species: Henicorhina leucophrys	
	Weight: 13.5g	Museum & Catalogue #:	
Tissues	Toes & Tarsi: dark grey-brown	Maxilla: black	Mandible: black Iris: brown
☒ Mu, Li RNA (t=130521)	Wing Molt: none	Fat: no fat	
☒ Li, He, Br, Eye RNA (t=130522)	Tail Molt: none		
☒ Ki, Mu, Re Or RNA (t=130523)	Body Molt: none		
☒ Intestine Gu (t=130524)	Skull Ossification: 90%	Brood patch: not present	
☒ Liver Gu (t=130525)	Ovaries / testes: testes 5x4mm, 6x4mm	Stomach: insect parts	
☒ Lung Gu (t=130526)	TLL/TLR:		
☒ Mu Etoh MusNat (t=)	BL/BW/BH:		
☒ Blood Lysis Buffer 130527	WLL/WLR:		
☒ Blood smear	Notes: death 17:55, muscle 18:10, other body cavity tissues 18:25-18:30 net 3 12:15 eye, brain 19:00		

# SMR492	Locality: 4.9km NE (by rd) of Laj Chime		Lat:
PREPARATION TYPE: 27 May 2011	Province/Country: Quiché, Guatemala		Long:
☒ Skin ☐ Skeleton ☒ Digital Jerome 3873, 3874	Date collected: 27 May 2011	Collector:	Altitude:
	☐ ♀ ☒ ♂ ☐ Unk.	Species: Henicorhina leucophrys	
	Weight: 14.8g	Museum & Catalogue #:	
Tissues	Toes & Tarsi: grey-brown	Maxilla: black	Mandible: black Iris: brown
☒ Mu, Li RNA (t=131014)	Wing Molt: none	Fat: trace	
☒ Li, He, Br, Eye RNA (t=131015)	Tail Molt: none		
☒ Ki, Mu, Re Or RNA (t=131016)	Body Molt: none		
☒ Intestine Gu (t=131017)	Skull Ossification: 95% ossified	Brood patch: not present	
☒ Liver Gu (t=131018)	Ovaries / testes: testes 5x4mm, 5x4mm	Stomach: insect part	
☒ Lung Gu (t=131019)	TLL/TLR:		
☒ Mu Etoh MusNat (t=)	BL/BW/BH:		
☒ Blood Lysis Buffer 131020	WLL/WLR:		
☒ Blood smear	Notes: net 3 05:50, death 06:30 body cavity tissues by 07:05, eye+brain 07:50		

# SMR 1493 1504	Locality: 4.9km NE (by rd) of Laj Chime		Lat:
PREPARATION TYPE: 27 May 2011	Province/Country: Quiché, Guatemala		Long:
☒ Skin ☐ Skeleton ☒ Digital Maria Fernanda 5417	Date collected: 27 May 2011	Collector:	Altitude:
	☐ ♀ ☒ ♂ ☐ Unk.	Species: Chlorospingus ophthalmicus	
	Weight: 16.1g	Museum & Catalogue #:	
Tissues	Toes & Tarsi: light grey	Maxilla: dark brown	Mandible: yellow proximal, black distal Iris: grey-brown
☒ Mu, Li RNA (t=131065)	Wing Molt: none	Fat: light	
☒ Li, He, Br, Eye RNA (t=131066)	Tail Molt: none		
☒ Ki, Mu, Re Or RNA (t=131067)	Body Molt: none		
☒ Intestine Gu (t=131068)	Skull Ossification: completely unossified	Brood patch: not present	
☒ Liver Gu (t=131069)	Ovaries / testes: testes < 1x/mm	Stomach: small seeds	
☒ Lung Gu (t=131070)	TLL/TLR:		
☒ Mu Etoh MusNat (t=)	BL/BW/BH:		
☒ Blood Lysis Buffer 131071	WLL/WLR:		
☒ Blood smear	Notes: net 4 12:22h, death 17:12h, body tissues by 17:31h eye+brain by 17:51h		

#	SMR1554	Locality: 2.1 km NW (by rd) of Chinatzatz on road to Pasojoc, Sierra de Chuacús		Lat:
PREPARATION TYPE:		Province/Country: Quiché, Guatemala		Long:
☒ Skin		Date collected: June 5, 2011	Collector:	
☐ Skeleton		☐ ♀ ☐ ♂ ☒ Unk.	Species: ~~Myadestes occidentalis~~ Turdus rufitorques?	
☐ Digital		Weight: 65g	Museum & Catalogue #:	
Tissues		Toes & Tarsi: orangish brown	Maxilla: black	Mandible: black
☒ Mu, Li RNA (t=131581)		Wing Molt: molt on lesser coverts	Fat: light fat on breast	
☒ Li, He, Br, Eye RNA (t=131582)		Tail Molt: feather coverts		
☒ Ki, Mu, Re Or RNA (t=131583)		Body Molt: molt on back, sides		
☒ Intestine Gu (t=131584)		Skull Ossification: 100% unossified	Brood patch: defeathered	
☒ Liver Gu (t=131585)		Ovaries / testes: not found	Stomach: berries	
☒ Lung Gu (t=131586)		TLL/TLR:		
☒ Mu Etoh MusNat (t=)		BL/BW/BH:		
☒ Blood Lysis Buffer 131587		WLL/WLR:		
☐ Blood smear		Notes: caught with JF2879 and death 16:30h		

#		Locality:		Lat:
PREPARATION TYPE:		Province/Country:		Long:
☐ Skin		Date collected:	Collector:	
☐ Skeleton		☐ ♀ ☐ ♂ ☐ Unk.	Species:	
☐ Digital		Weight:	Museum & Catalogue #:	
Tissues		Toes & Tarsi:	Maxilla:	Mandible:
☐ Mu, Li RNA (t=)		Wing Molt:	Fat:	
☐ Li, He, Br, Eye RNA (t=)		Tail Molt:		
☐ Ki, Mu, Re Or RNA (t=)		Body Molt:		
☐ Intestine Gu (t=)		Skull Ossification:	Brood patch:	
☐ Liver Gu (t=)		Ovaries / testes:	Stomach:	
☐ Lung Gu (t=)		TLL/TLR:		
☐ Mu Etoh MusNat (t=)		BL/BW/BH:		
☐ Blood Lysis Buffer		WLL/WLR:		
☐ Blood smear		Notes:		

#		Locality:		Lat:
PREPARATION TYPE:		Province/Country:		Long:
☐ Skin		Date collected:	Collector:	
☐ Skeleton		☐ ♀ ☐ ♂ ☐ Unk.	Species:	
☐ Digital		Weight:	Museum & Catalogue #:	
Tissues		Toes & Tarsi:	Maxilla:	Mandible:
☐ Mu, Li RNA (t=)		Wing Molt:	Fat:	
☐ Li, He, Br, Eye RNA (t=)		Tail Molt:		
☐ Ki, Mu, Re Or RNA (t=)		Body Molt:		
☐ Intestine Gu (t=)		Skull Ossification:	Brood patch:	
☐ Liver Gu (t=)		Ovaries / testes:	Stomach:	
☐ Lung Gu (t=)		TLL/TLR:		
☐ Mu Etoh MusNat (t=)		BL/BW/BH:		
☐ Blood Lysis Buffer		WLL/WLR:		
☐ Blood smear		Notes:		

YR: 2013

NAME: Sean M Rovito

SPECIMEN CATALOG

PAGE #:

SMR205

Locality: Finca Linda Vista, Volcán Tecumburro, Pueblo Nuevo Viñas, Depto. Santa Rosa, Guatemala

☒ Skin☐ Skel.☐ ETOH☐ Other

Lat:

Long:

GPS Error:

Extent:

Datum:

Date collected: 16 June 2013

Date prepared: 16 June 2013

Species: Anabacerthia variegaticeps

Wt: 19.7g

Tiss: ☐ Froz ☐ Other RNALater Types: 1Barcode #: L: MVZ154741
HMK: MVZ154742☐ Audio☐ Photo

FN

☐ M☒ F☐ sex?

Skull: 95% ossified

Fat: very light

Repro.: Ovary, granular 6x3mm, largest ovum 1x1mm

Molt: none

Colors: Leg yellowish grey Eye brown
Mandible light grey U mandible light grey

Stomach: black organic matter

☐ Shot☐ Net☐ Salvage

Habitat: mixed pine oak forest

Notes: RNALater tissues: L, M HMK

Dead in bag

EtoH tissues: L, M

#

Locality:

☐ Skin☐ Skel.☐ ETOH☐ Other

Lat:

Long:

GPS Error:

Extent:

Datum:

Date collected:

Date prepared:

Species:

Wt:

Tiss: ☐ Froz ☐ Other _____ Types:

Barcode #:

☐ Audio☐ Photo

FN

☐ M☐ F☐ sex?

Skull:

Fat:

Repro.:

Molt:

Colors:

Stomach:

☐ Shot☐ Net☐ Salvage

Habitat:

Notes:

#

Locality:

☐ Skin☐ Skel.☐ ETOH☐ Other

Lat:

Long:

GPS Error:

Extent:

Datum:

Date collected:

Date prepared:

Species:

Wt:

Tiss: ☐ Froz ☐ Other _____ Types:

Barcode #:

☐ Audio☐ Photo

FN

☐ M☐ F☐ sex?

Skull:

Fat:

Repro.:

Molt:

Colors:

Stomach:

☐ Shot☐ Net☐ Salvage

Habitat:

Notes:

YR: 2011		NAME: Sean Rovito		SPECIMEN CATALOG		PAGE #:	
#5MR1629		Locality:					
☒ Skin ☐ Skel. ☐ ETOH ☐ Other		Lat: 15.40686 Long: -88.69403°W		GPS Error: 25ft Extent:		Datum: WGS84	
		Date collected: 16 August 2011		Date prepared: 16 August 2011			
		Species: <i>Glyphorhynchus spirurus</i>					Wt: 15.5g
		Tiss: ☐ Froz ☒ Other		RNA Later Types:		Barcode #:	
☐ Audio ☐ Photo FN		☒ M ☐ F ☐ sex?		Skull: 15% ossified		Fat: slight	
		Repro.: testes tiny 1x1mm					
		Molt: ~~body~~ body molt					
		Colors:		Stomach: plant matter, insect parts			
☐ Shot ☒ Net ☐ Salvage		Habitat:					
		Notes: Liver (152962) Brain + Rep. (152961) L+M (EtOH)					
		HMK (152963) Net 4 10:45AM					
#5MR1651		Locality:					
☐ Skin ☒ Skel. ☐ ETOH ☐ Other		Lat: 15.40518 Long: -88.69374		GPS Error: 25ft Extent:		Datum: WGS84	
		Date collected: 18 August 2011		Date prepared: 18 August 2011			
		Species: <i>Mionectes oleagineus</i>					Wt: 9.9g
		Tiss: ☐ Froz ☒ Other		RNA Later Types:		Barcode #:	
☐ Audio ☐ Photo FN		☐ M ☒ F ☐ sex?		Skull: 20% ossified		Fat: little	
		Repro.: Ovary smooth					
		Molt: body					
		Colors:		Stomach: seeds			
☐ Shot ☒ Net ☐ Salvage		Habitat:					
		Notes: W.L. 63mm Liver (153252) Brain + Rep. Organs (153251)					
		L+M (EtOH) HMK (153253) Net 7 10:45AM					
#		Locality:					
☐ Skin ☐ Skel. ☐ ETOH ☐ Other		Lat: Long:		GPS Error: Extent:		Datum:	
		Date collected:		Date prepared:			
		Species:					Wt:
		Tiss: ☐ Froz ☐ Other		Types:		Barcode #:	
☐ Audio ☐ Photo FN		☐ M ☐ F ☐ sex?		Skull:		Fat:	
		Repro.:					
		Molt:					
		Colors:		Stomach:			
☐ Shot ☐ Net ☐ Salvage		Habitat:					
		Notes:					

Date		Description		Amount	
1890	Jan 1	Balance		100.00	
	Jan 15	Received from A. B.		50.00	
	Feb 1	Received from C. D.		25.00	
	Mar 1	Received from E. F.		75.00	
	Apr 1	Received from G. H.		100.00	
	May 1	Received from I. J.		150.00	
	Jun 1	Received from K. L.		200.00	
	Jul 1	Received from M. N.		250.00	
	Aug 1	Received from O. P.		300.00	
	Sep 1	Received from Q. R.		350.00	
	Oct 1	Received from S. T.		400.00	
	Nov 1	Received from U. V.		450.00	
	Dec 1	Received from W. X.		500.00	
	Total			2500.00	

Sean M. Rovito

2011

Journal

Guatemala: Alta Verapaz, Baja Verapaz,
El Quiche, Izabal, Jutiapa

Mexico: Jalisco

Karito, Sean

2011

Journal

Mountains NE of Coban, Alta Verapaz, Guatemala

3/15

Arrived in Guatemala City yesterday morning + met w/ collaborators at USAID. Drove to Coban + attempted to reach high forested area ~20km NE (by air) of Coban, near the village of Sacristal, but failed to get there before dark and returned to Coban for the night. This morning, we drove back to Sacristal, turned south (found DOR Stenomochus) and turned W uphill until we reached the abandoned village of Bethel. The only remaining family explained that Menemites from Carcha owned the area + gave land to people to farm, but the farmers cut down the forest and were thus expelled several years ago. The Menemites (FUNDAMENO) still have a 90 ha forest reserve, which seems in decent condition. We hiked NE for a short distance but never reached good forest, although we could see it; walked through secondary forest + scrub. Carlos got a Bolitoglossa helmintha under bark near the village. We went a little NW from the houses, passing through good forest for ~100m, but again never reached the extensive good forest, which we could see across a gulch. The cleared area appears to extend back from the houses, but this is still by far the largest forest in the region. We drove to Uspantán to spend the night.

Uspantán and Taj Chinel, Quiché, Guatemala

Mar. 16

Spent morning meeting with people to set up collecting trip to Taj Chinel in May. Were given a frozen Sceloporus by the CONAP people. Went to Taj Chinel + on to San Pablo El Baldío, where little forest remains. Returned to Chinel forest reserve + searched in roadbank from ~13:15-15:20; got 5 B. lineatus, 1 Sceloporus + 1 Anolis. Weather was misty w/ light rain. Drove to Nebaj, found a DOR Senticos just before Cunen.

Kanto, Sean
2011

Journal

Dumal, Nebaj, Quiché, Guatemala

Mar. 17

We drove to Chajul, where it was the town's festival day, so no one was in the municipalidad. We found the mayor at his house and talked to him about getting permission to work in the Reserva Bisis-Calah. We drove back to Nebaj, and went on to Salquil Grande, a Stuart locality, but found no forest in the area. Continued on to Batz, Dumal I, passing through an area that was once an oak forest but now has only ~20 trees remaining (15.52378°N , 91.25167°W [$\pm 8\text{m}$], 2785m elev.). The people in Dumal ~~themselves~~ told us that the pine-oak forest on Cerro Dumal had burned several times, and that the only remaining forest in the area is a 2 day walk away. We drove back to Nebaj and spent the night in Santa Cruz de Quiché.

Zacualpa, Quiché, Guatemala

Mar. 18

We drove E from Santa Cruz to Zacualpa, then took a road NE up into the Sierra de Chuacús. We passed through secondary oak forest and stopped to search for salamanders at the high point on the road, near Alta Cholonguey. Saw only 3-4 large, old oaks, but even the small trees were fairly heavily laden with bromeliads. We searched in bromeliads from 12:55 - 13:30; I opened about 10. I found 2 B. cuchumatana (each in 1 bromeliad), plus 3 more in a single bromeliad that also had an adult B. meliana and a small Plectrohyla, which reminded me of P. ixil. We drove back to Zacualpa and spoke to the people in the municipality, then drove 10.9 Km NW to Tzinatzatz, on the slopes of a forested mountain called Cerro de los Monjes. We searched in big bromeliads in larger oaks from 16:30 - 17:00 (maybe 10) + got 11 B. cuchumatana (kept 10) + 1 Plectrohyla. The day was sunny + cool. Spent night in Santa Cruz.

Color notes - Cryptotriton sp. nov. - Bethel

5/23/11 Ventral - dark grey brown w/ very few light grey specks toward sides. Gular region dark grey w/ more light grey flecks. Anterior half of tail dark grey-brown w/ many tiny light grey flecks, posterior half medium brown. Sides of body dark brown-grey background w/ gold and ^{mottling} grey specks, some slightly larger light grey specks. Sides of head same color. Sides of tail dark grey-brown w/ light grey + several larger grey specks on lower part of anterior half, chocolate brown on upper half of anterior half + on posterior half. Dorsum chocolate brown w/ irregular golden-brown dorsal band, several gold-brown specks dorsolaterally. Dorsal surface of tail solid golden-brown. Paratoid region darker golden brown, rest of head darker brown w/ lighter brown specks. Dorsal surface of limbs + feet dark brown w/ golden brown specks. Ventral surface of limbs yellow-brown w/ darker brown spots. Iris brown

Karls, Sean

2011

Journal

May 18

Bethel, 19.0 Km NE (by air) of Cobán, Montañas de Amatenso, Alta Verapaz, Guatemala

I arrived in Guatemala City with Ted Papenfuss on May 15. We spent May 16 w/ Carlos Vásquez preparing supplies. On the morning of the 17th, after Zach Hamant joined us the previous evening, we were met by the Guatemalan participants: Jorge Erwin López (mammalogist), Ricardo Gortillo, Julio Mendez, Raiza Barahona, and Maria Fernanda Asturias Ramirez (all undergrads at USAC). We drove to Bethel, the forest owned by Mennonites from San Pedro Carchá, NE of Cobán, arriving around 19:30. Jorge and the mammal students set up a few mist nets from 21:00 - ~00:00 a few hundred meters NE of the buildings where we were staying; Carlos and I searched briefly along the path, and found 2 B. helmrichi and 1 Anolis on vegetation. It was quite dry and hadn't rained for 8 days according to Don Carlos, Bethel's only inhabitant (along w/ his family). Carlos and I walked up the road and searched on roadbanks and along paths in the forest from 22:15 - 23:00. We found 4 B. helmrichi and 6 Anolis, all on vegetation except for one Anolis that was on a rock wall. This morning, Ted put in a 40 ft pitfall array, while Carlos, Ricardo & I searched in the forest, starting where we had been last night & following a logging trail S from the road. I quickly got a big B. helmrichi inside a log, the first dive ever seen on the ground, and then got another inside a tiny arboreal bromeliad on the forest edge. The forest here is beautiful, with gigantic trees, and seems like a low elevation cloud forest, with many tiny arboreal bromeliads and larger, spiny, terrestrial bromeliads. The land is karstic, with tons of caves and sinkholes. There were several sites where they had cut large trees into boards, and

Pinto, Sean
2011

Journal

Bethel, 19.0 Km NE (by rd) of Coban, Montañas de Sacansin, Alta Verapaz, Guatemala (cont.)

May 18

Carlos found another B. helminthi under a board. Ted caught 3 Anolis (coarctatus?) and saw many more. I climbed down into a giant cave-like crack ~10m deep with deep, moist leaf litter at the bottom and got a Gerrhonotus and an Anolis we walked to the end of the trail and a bit beyond before turning back for lunch. In total, we searched from 08:25-11:50. After lunch, the bird people were totally swamped (32 birds), and Zach had to teach the students how to prep, so Ted began labeling vials and worked at this until midnight! The three of us (Carlos, Ricardo + I) prepped specimens until ~16:30, when I began prepping birds. I have little experience, so it took me until almost 2AM to do 4 birds. At night, Carlos + Ricardo went out and found 2 Dendroica cyanosticta in a water tank next to some houses. Ted searched along the path we took in the morning and collected up to our permit limit of B. helminthi and Anolis (6 + 4, respectively) from 20:25-22:30. It was rather hot during the day, and sunny, but got cloudy in the afternoon and seemed as though it would rain, which it never did.

Purulha area, Baja Verapaz, Guatemala

May 19

Spent morning prepping; also helped with birds. Carlos decided we needed to leave tonight to get back in time for his graduation, so we drove to the Bishop del Quetzal + stayed at Hotel Montañas del Quetzal. Searched along a stream 0.9 Km N of hotel on CA-14 from 21:45-22:45. Got 3 Rana (along stream), 2 Anolis (on vegetation), and 2 Ptychocheilus (one I got was on veg away from stream). Appears it hasn't rained here - ~~very~~ dry and cool.

Karto, Sean
2011

Journal

May 22

Bethel, Montañas Secasán, NE of Cobán, Alta Verapaz, Guatemala

We arrived back in Bethel around 17:00 yesterday after leaving Guatemala City in the morning following Carlos' graduation. It hadn't rained and Ricardo had spent the time prepping birds. Carlos and I searched along the road for 15 min at night but it was very dry and we gave up. We found 2 more *Smilisca cyanosticta* + a *Craugastor xucanebi* in one of the water tanks in Bethel. This morning, Carlos, Ricardo and I left at 10:00 to try to reach the high point in the Montañas Secasán (1800m). We walked ~500 m back down the road, entered a cornfield and then hiked off-trail into the forest using the GPS to navigate. Lots of small arboreal bromeliads where we started and nice forest w/ large trees + a fairly open understory; I got a *C. bocourti* here. We arrived in a new kind of habitat above ~1650m, with lots of bamboo; it was more humid here and seemed more cloud forest-like. Started opening small arboreal bromeliads and got 6 *B. helminckii* (collected only 1) in 20-30 bromeliads. Also opened many of the larger ones w/ spiny leaf edges but got nothing all day in these. Also got a *C. bocourti* + saw 2 more in this habitat. Lots of signares + small caves - made walking cross-country even more difficult. Spent a lot of time opening many great logs but found nothing. Fought our way uphill until we finally got to some paths + clearings w/ cut wood, made by loggers from communities above Chiquixij. We partially followed these until a logger-made clearing (15.59251°N, 90.26777°W [0 + 1110m], 1768m elev.), where we stopped. There was a big logged area on one side and decent forest on the other. Since the habitat hadn't changed since entering the bamboo zone and we were only 50m below the high point, we decided to turn back around 15:30.

Rovito, Sean
2011

Journal

May 22

Bethel, Montañas Ixcans, NE of Cobán, Alta Verapaz, Guatemala (cont.)

On the way down, we saw 2 huge bromeliads of the kind w/ wide leaves that we usually open. Carlos opened one and got a B. helminthica. I opened the other, which was near the top of a dead snag and fully exposed to the sun. I got a Cryptotriton with a golden brown tail and grey flecks on its sides that looks much like the single specimen we got at Finca Nalcán. Nostrils don't look too big for a Cryptotriton.

We opened ~6 more good bromeliads but found nothing. Forest here consisted of large, tall trees + a fairly shrubby understory w/ some bamboo. It was getting late, so we headed back using the GPS to retrace our route, but ended up trying a property line path that led us off our desired route. I spent a long time bushwhacking through thorny secondary growth before finally emerging into the forest where we had been earlier in the day. Found 3 Rana gator locustii on the way down, plus at least 2 Rana gator that I couldn't catch. In a clearing w/ cut wood, Carlos got a small colubrid snake after dark. We emerged back out on the road at about 19:10, feeling exhausted and beat up, it seemed like it would rain until midday, when a few drops fell, but otherwise it was hot (maybe 27°C) and cloudy all day. The night was dry so we didn't bother looking.

Laj Chimed, Alta Verapaz, Guatemala

May 25

We left Bethel on the morning of May 23 + drove to Uspantán; Ted, Jorge, Julio and Riza left for Guatemala City. The rest of us spent the night in Uspantán and waited all day yesterday. Around 5 PM, a rented minibus w/ Juan Fernando Hernandez, Ana Lucia Arzaga, ~~and~~ Nicole Paul Alejandro

Rovito, Sean
2011

Journal

Laj Chind, Alta Verapaz, Guatemala (cont.)

May 25

... Jerome Fuchs, and Rodolfo Lima arrived from Guatemala City. We packed + drove to Laj Chind, N of Uspantán, arriving around 19:00 after a 50 min drive. When we arrived, we realized that Ana Lucia's pack was missing; a group drove back to Uspantán but failed to find it. Carlos, Ricardo and I went out this morning to the forest between Laj Chind + San Pablo el Baller. We put in 2 pitfall arrays (9 traps total) in the forest with the mammal people and then searched in the roadbank. From 11:35-12:15, we got 3 Anolis and a B. lineatus in the bank, and I found 2 Tropidodipsus fischeri under logs in the sun. From 12:45-13:30, we got a Rhachinea under a log, 2 Anolis, and 4 Sceloporus in the roadbank. We took photos + propped after lunch. I then helped the bird people set up nets. It had been cloudy all day and fairly warm. After dinner, we went back to the area w/ the pitfall arrays + searched from 20:55-22:50 in the forest. It was misty + cloudy and a few drops of rain fell, but it was fairly dry in the forest although some of the moss was wet. I got a tiny Blotisaurus cucumatana on a leaf ~3m above the ground and a B. hartwegi on a leaf just above the ground. After leaving the forest, we searched on the same roadbank as earlier in the day, which was slightly wetter than in the forest. I got an Anolis + Carlos got 2 more. Ricardo + I dug a big B. lineatus out of a burrow in a clay bank. We looked from 22:55-23:40 before heading back to sleep.

Kovits, Sean
2011

Journal

Chimel and Palo Viejo Hydroelectric area, Quiché, Guatemala

May 26

We had to wait a while for a truck this morning, then we drove to Uspantán to make + send lists for export permits. We then took a very good new road that leaves from Calante (~ 4 km N Uspantán) and goes to La Gloria in the Zona Reina. We passed Finca San Francisco, which had great looking bananas amongst many hectares of coffee, but which was guarded by somewhat menacing, ex-military men. We arrived at the massive Palo Viejo hydroelectric dam, which is about a year from completion. Right after the dam, the road goes through apparently untouched primary forest. Lots of big trees w/ understory of palms, ardis, tons of bromeliads + many logs. We opened about 15 huge bromeliads w/ spiny leaf edges and I opened many smaller ones, but they had lots of water. Looked in logs + leaf litter from 13:35 - 15:35; Carlos got an Anolis and no one else found anything. We went a few km further and could see that the road goes down through great-looking forest, but we needed to get back to Uspantán before the gas station closed!

This area seems like it has great potential for some important species, including those from similar elevations in Huehue (like B. jacksoni, Nyctanolis, etc). It rained quite a bit on the way back, and we were told that it rained hard + hailed in Taj Chimel. After dinner, we went to search in the Chimel forest where the mammal traps were from 21:15 - 23:30. I got a B. lineatus + 3 B. hartwegi, all on leaves (2 of which were on plants growing on logs 2-3 m off the ground) while Carlos + Ricardo got 2 B. lineatus + 4 B. hartwegi. The forest was very wet and it rained lightly for a few minutes and was misty the rest of the time.

Rovito, Sean
2011

Journal

Quiché

Laj Chinch, ~~Quiché~~, Guatemala

May 27

We prepped specimens in the morning + were about to out to look for herps after lunch when a huge rainstorm hit. Spent the afternoon cleaning our filthy cabin instead. After dinner, it had stopped raining (maybe around 20:00) and we went to the trail from the Laj Chinch-San Pablo el Baldío road that leads to Cusco Chorras. The bird nets were set up along here, and I went out with the birders at 04:30 this morning + had heard frogs calling in the forest (also got a Bufo). One side of the trail is forested while the other side is either secondary forest, scrub, or cornfields. I searched along the path w/ Ricardo from 21:15-23:00 and I found 4 B. lineatus (all on vegetation), 2 Anolis sleeping on leaves, and a Craugastor on a leaf. Ricardo said he would be right behind me when I returned back just before 23:00. I met Carlos on the way back, and he had found 3 Craugastor, all on vegetation. We went back to the truck to wait for Ricardo + Carlos found a Tropidodactylus figueri + an Anolis on the rock wall along the road. We waited for ~30 min + then went to search for Ricardo for 30 min before finding him back at the car; he had gotten lost in the woods + we walked past him. Our plan was to search for longer, but we were all exhausted + decided to go to bed. The night had been very good for searching - everything was wet but no rain.

Cerro Macalajon, Uspantán, Quiché, Guatemala

May 28

We had to put gas in one of the trucks, so we decided to look near Uspantán today. After breakfast, we drove to the path that Laura (a peace corps volunteer) had led us up in Jan 2010. I opened a 2

Kovito, Sean
2011

Journal

Cerro Mucalajay, Tapantán, Quiché, Guatemala (cont.)

May 28

... brachiads in a secondary forest above the road + got 5 small B. cucumata out of one of them. We then walked all the way to the oak forest at the top, which is now bordered by a corn field that wasn't there in Jan. 2010. We searched from 13:00 on, and I quickly found a large Hendrobita bekchium w/ no tail under a small piece of fallen branch near the lower limit of the forest. I worked with Ricardo while Carlos climbed uphill. The Hendrobita is quite pretty, with greenish lines down its side (faint); it looks somewhat like H. sanctitaris to me. I looked in one of the brachiads w/ log, thin, spiky leaves that were growing on logs and on the ground and found a tiny B. rostrata near the center of the leaf rosette; I later found 5 more this way (one of which escaped), all of which were tiny. We searched in + under logs and fallen wood until 15:45. Ricardo got 3 B. rostrata. We then found Carlos, who had stopped searching about an hour earlier + climbed downhill. He was told by a hunter who passed by that we had already left. He had also found a small B. rostrata inside a log. The forest was fairly dry, although the leaf litter was somewhat wet; seems like the rain in Taj Chimal hasn't gotten here yet. Looked for brachiads in the oak trees but saw none; habitat is huge, mossy oaks w/ bamboo. Makes me think that H. bekchium may not live (at least not exclusively) in brachiads. We headed back to Taj Chimal. It had rained lightly while we were searching, but on the way back it began to pour and the rain didn't stop after dinner. We were all very tired + decided not to go out searching tonight.

Rovito, Sean
2011

Journal

May 29

Road from Palo Viejo hydroelectric dam to La Gloria, Zona Reina, Quiché, Guatemala.
Spent all morning prepping specimens; rained hard in afternoon. Carlos, Ricardo, + I left for the Zona Reina and arrived late in the afternoon. It had rained hard there + the road was in pretty bad shape. Arrived in La Gloria at about 19:45 and searched in bananas in people's yards in Aldea 21 de Mayo Necoyese for 20-30 min. We got a Smilisca baudinii in a banana tree + a Ninia diademata under a log. Drove back up towards Palo Viejo after dark + stopped at a small stream crossing the road at ~1100m elev., ca. 2-3 Km from La Gloria. Ricardo + I each got a hybrid metamorph on veg. next to the stream + Carlos got 2 Phyllorhina hartwegi along a small stream above the road. The road was slippery + rain threatened, so we drove to our campsite at the high point on the road before searching again, 3 Km N of the hydroelectric dam. We searched in a forest that was mostly palm trees + smaller deciduous trees from 20:25-21:30; got 9 B. cucumata, 1 P. hypomykter, 3 Craugastor xucanechi + 3 Craugastor sp. We walked along the road + Ricardo saw a juvenile Thryonotis pernix on the roadcut - first record for Quiché! It was below what seemed like nice forest. In an area of forest w/ lots of palms + some large trees above the road near here we got 6 more B. cucumata, 1 C. xucanechi, 3 Craugastor sp. + 1 Anolis. We walked on to where we searched on our previous visit and searched until 12:30. Carlos + Ricardo got a juv. Batrachoseps aurifer on a branch + an Atrypoides mexicanus along a stream. I focused on big trees for Thryonotis (like I found them at Maxbal) but saw only a C. xucanechi. We walked back + camped near the high point on the road. Night was clear + not too cold following rain of early afternoon. Forest is fabulous here - more to find. Road is too new for people to have settled the area yet.

Kantor, Sean
2011

Journal

June 4

Chimatatz, Sierra de Chuacús, Quiché, Guatemala

Spent all of June 1 + most of June 2 dealing w/ export permits; drove to Santa Cruz del Quiché in the evening. The museum truck was having problems climbing hills - no power. Yesterday, talked to Josue Nájera, in the municipalidad of Jacuapá, who we met on our last visit. Tried to go w/ him to Chimatatz, where Carlos + I had collected salamanders, but the truck couldn't make it up the hill. Headed back, found a guy w/ a truck, loaded all gear + drove his full + our empty truck to Chimatatz. It rained hard in afternoon + we were unsure exactly where good forest was, so we stayed in the school (last classes were today - no kids for a week). Went out at night after rain ended + walked along road for ~1 km but saw nothing - bad habitat, road cuts too new w/ no cracks. This morning, two guides named Manuel took us to a really nice oak forest at 04:30 to set up bird nets + mammal traps. I found 2 *Bolitoglossa morio* on the ground + on a log at 04:50; the forest was wet from yesterday's rain. This population has orangish-pink blotches on its sides + venter and white speckles and should correspond to Campbell's *B. omnisanctorum*. The forest has very big, old oak trees with enormous and numerous bromeliads, scattered pine trees, and a fairly open understory + thick leaf litter. We set up most of the bird nets along paths bordering secondary, brushy vegetation + bushes just above the new road to Pascoj (sp.?). This is a few hundred meters from where Carlos + I stopped in March. I helped set up bird nets for a few hours while Ana Lucia + Alejandro Nicolle set mammal traps; they found a juvenile *B. cuxumutana* + a dead *B. morio* in a fallen bromeliad. The dead *B. morio* decayed rapidly + I didn't collect it. Jerome + Rodolfo spent

Rovito, Sean
2011

Journal

June 4

Chimatatz, Sierra de Chuscu, Quiché, Guatemala (cont.)

... spent the morning at the bird nets while I searched in 20-30 great bromeliads. Got only 2 *B. cuchumatana*, one of which was headless due to a misguided machete chop (not collected). I decided the bromeliads had too much water, which is a shame since the locals seem to know a green species of *Abronia* ("escorpión") that I hoped to get. Foraging on logs, I got 2 more large + 1 juvenile *B. morio*. Also got a big *B. morio* in the outer leaves of a fallen bromeliad. Searched until 12:00, then drove the mammal team back to Chimatatz. Returned w/ food for the birders + saw a trogon (male) almost get caught in a mist net. Rain threatened, so we all drove back to Chimatatz to prep + map. I went out with the mammal team at night to search while they mist-netted for bats. The rain never came + it was very windy, which made the forest dry. I searched from 21:00-22:30 and found 2 *B. morio* + 7 *B. cuchumatana* on leaves before heading back. Should get a lot of animals at night if it rains again.

June 5

Woke up at 07:30, hiked up to forest by 10:00 after field notes + breakfast. Searched 10:00-13:30; found 1 *B. morio* in a log, 3 under logs + 1 *B. cuchumatana* in a log. Searched in many fallen branches + logs, found most salamanders on the edge of the good forest and an area w/o large oak trees that might be secondary. Rain started, so me + birders headed back to Chimatatz to prep specimens. It rained lightly for ~30 min, then cleared up. Searched along same trails at night from 19:00-21:30 + got 2 *B. cuchumatana* (1 on lower part of tree trunk, 1 on leaf) + 7 *B. morio* (collected 3), all on leaf litter. Forest was wet in places from rain but not too wet. Heard a frog w/ a 1-note whistle (V) call.

Kanto, Sean

2011

Journal

June 6

2.1 Km NW (by rd) of Chinatzatz on road to Pasaje, Quiché, Guatemala
Prepped specimens this morning, then went up to forest after Nicolle returned from checking mammal traps. On the way up, Jerome + I saw a jaguarundi cross the road; Rodolfo told me he saw it in the forest chasing a small mammal (rodent). I started searching at 11:00 and decided to focus on bromeliad sampling. I worked until ~~13:00~~ 13:00, then again from 14:00 - 17:30, and opened a total of 45 bromeliads. Most were very large w/ lots of water, and I worked primarily in an area of large oak trees w/ many bromeliads and a sparse understory; I think people have removed the smaller trees for firewood. In total, I got 13 *B. cuchumatana* (kept 7). I also opened a few logs at the beginning of the day + got 3 *B. morio*, 1 in + 1 under a log. The third *B. morio* either came from a bromeliad or was in the leaf litter where I was opening the bromeliads - not sure which. I was a little surprised not to see any other herps, but perhaps the bromeliads just have too much water. Day was cool + cloudy w/ no rain so I didn't search at night.

June 7

Prepped specimens in morning. Opened 20 bromeliads in disturbed/secondary oak forest from 10:15 - 12:00; found no herps but took bromeliad insect sample in 95% EtOH. Jerome + Rodolfo collected a ♀ *Anolis* at their bird prepping site, saw another. I saw 2 *Acelaphorus* but caught neither. Walked N through secondary forest but found no good areas to search - few logs or bromeliads. After a long lunch (14:00), walked SE into pine/oak forest + searched until 16:15. Found 2 *B. morio* + 1 *B. cuchumatana* under logs and another *B. cuchumatana* under bark of cut wooden plank. Opened 15 bromeliads + got 4 *B. cuchumatana*. Started to rain lightly around 15:30, then hard at 16:30. Went back to Chinatzatz w/ Jerome + Rodolfo after they pulled the mist nets.

10/10

10/10

1. The first part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles. The structure of the atom is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles. The structure of the atom is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

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2. The second part of the paper is devoted to a discussion of the general principles of the theory of the structure of the atom. It is shown that the structure of the atom is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles. The structure of the atom is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles. The structure of the atom is determined by the laws of quantum mechanics, which are based on the principle of the uncertainty of the position and momentum of the particles.

10/10

Roots, Sean
2011

Journal

June 7 2.1 Km NW (by rd) of Chimatutz, on road to Pasaje, Quiché, Guatemala (cont.)
... It rained hard for 1-2 hours while we had dinner. At 20:15, I walked up the road (which was muddy + slippery) to the forest, arriving at 20:45. It was very misty, but hardly raining. I searched along the same path I had walked in the afternoon, and it began to rain heavily around 22:00. I saw 13 B. morio: 2 were on the lower part (<50 cm off ground) of tree trunks, and 11 were on the leaf litter. I also saw 6 B. cuchumatana: 3 were on tree trunks (0.5-1.5 m off ground), 2 were on the ground and one was on the road bank alongside the forest. I found a very small adult male salamander on the leaf litter that looks like (and probably is) a B. morio, but it had brownish rather than grey dorsal coloration and seemed to have slightly less webbed feet. It was in an area of mixed pine-oak forest and I found several B. morio nearby. I think it's the smallest adult I got if it's B. morio; collected it in case it turns out to be different. I am surprised by the lack of any Craugastor in this forest - on a wet night like tonight, I would have expected to see them. The apparent rarity of Anolis is also surprising, although my focus on bromeliads + logs may have prevented me from finding many lizards. Aside from a single colubrid we saw (but couldn't catch - yellow/green + black) on the first day, I saw no snakes, either. Our guide on the first day, Manuel, described an arboreal green viper that sounds like Bothriechis aurifer, but didn't seem to know of Cerradophilus; maybe it's not here. Would be worth returning here in the dry season to do bromeliad sampling, which I expect would turn up a Blasiolepis melanura, since we found one at a nearby site in a bromeliad in late March.

Kanto, Sean

2011

Journal

Aug. 8

FUNDAECO field station, Cerro San Hil, Depto. Chimal, Guatemala

I arrived in Guatemala on Aug. 6. Trip started Aug 7 w/ participants: me, Carlos Nájquez, Gabriela Parra, Ted Papenfuss, Jim Patton, Ella Nájquez, Sergio Perez, Stephanie Ordóñez, Kauri Bowie, Julio Mendez, Dan Watt, Olga Sanchez, Juan Fernando Hernandez. Slept at Backpackers Hotel in Rio Dulce - cool place. This morning, drove to small village of Carboneras + met Elias, our guide from FUNDAECO. We shuttled things down to a river, then carried the luggage uphill (w/ help from several porters) to a FUNDAECO field station. Spent about an hour in afternoon raking through leaf litter + opening logs above field station; found nothing. Jim Patton got a juvenile Alouatta palliata (apparently, active) around 13:00 on the trail; said he thought he saw an adult in same place that escaped. After dinner, we (4 porters + Elias) went out around 19:00, just after dark. Gabry found a Cryptotriton hernandezii sleeping on a small tree + Carlos got a big female B. rufescens under a leaf. Gabry also got a Crangon chac, ^{caught by} Carlos; I saw a Crangon + an Anolis but both escaped. Further along trail Carlos got a juv. Pothosium nasutum that someone else had seen. Much further along loop trail, I got a Bothriechis schlegelii on a leaf, and Carlos found a juv. Anolis cafer. We arrived back at the station around 21:30. It rained in Rio Dulce for ~15 min last night but seemed very dry here. No rain today; weather was warm, perhaps ~80°F. Forest here in great shape; big trees w/ large buttresses, lots of huge palm trees w/o much of a trunk, pacaya, lianas, fairly dense understory.

Karto, Sean
2011

Journal

Estación Biológica Chandler Robbins, Cerro San Hil, Depto. Chabab, Guatemala
Aug. 9 Spent morning prepping specimens. At 14:00, walked uphill to where trail crosses a large creek w/ big pools + a small cascade, ~600m N of field station. On the way, got a Graugaster choco + 2 Anolis. Looked along stream - I found an Anolis and a big Microdus diastema partially exposed under some leaves, which Carlos helped me collect. Carlos got a big Oelispia elongata inside the end of a log, along the path near the stream. This area is more humid than areas around the field station. We opened logs and raked through leaf litter until 16:00 but got only 1 more Anolis. Carlos brought us a Sphenomorphus from this area as well. After dinner, we searched along a small stream that flows into the Rio Carboneras, from 19:15 - 21:15. It was dry all day so activity was somewhat low, but I got 6 C. sandersoni, 1 Bufo campbelli, + a Lepidophyma flavimaculatum under a piece of wood. Ted got 2 Cissamphibius, and Carlos got 4 more, plus a Hyalophylax, a Anolis, and a false coral snake. All the Graugaster sandersoni were immediately along the stream. Walking out, we saw 2 Bufo marinus (collected 1) in the Rio Carboneras. Gabriela walked back uphill to the large stream instead of coming w/ us. On the way, she got a juvenile Chrysomelids, and Jim Patton got a big Graugaster laticeps from near the mist nets in the same area. Kevin found a Therapsid in the rafters above his tent in the building where we're sleeping, which Carlos caught.

Karto, Sean
2011

Journal

Aug. 10

Estación Biológica Chandler Robbins, Cerro San Hil, Depto. Chimal, Guatemala

We spent the morning photographing + preparing specimens. After lunch, we walked uphill past the stream with the waterfall + searched in logs and leaf litter on the ~~path~~ path from ~14:30-16:30. There were tons of great logs in the area but I found nothing. Gabriela got a juvenile *Ptychocheilus* in a leaf axil, and Carlos got an *Anolis capito* on a log. After dinner, I went out alone and searched along the stream that leads to the Rio Cariboneras. On the way down to the stream, near the field station, I got 3 *Crangon laticeps*. Along the stream, I got a *Bolitoglossa rufescens* on a leaf next to the stream and a *Smilisca baudini* on vegetation over the stream, both near the edge of the forest. Walked back through the river to the path from the road up to the station. Got a *Silvery nectatus* in regenerating vegetation above the river, then saw nothing more. In total, searched about 20:50-22:30. Weather today was hot and dry, clouding over in the evening. Rained as I was falling asleep, 1/2 or 00:00-01:00.

Aug. 11

Cerro San Hil, Depto. Chimal, Guatemala

After breakfast, Carlos and I went with a guide, Antonio, to reach the high point of Cerro San Hil (1275m). We drove to a cattle ranch 2-3km past the turnoff to the field station on the road from Los Angeles, down to the Rio Cariboneras and parked at the river. Started hiking at 08:30; first part uphill was steep + in full sun. On the way up, we got into an area w/ some decent looking forest and Carlos caught a *Microtus diastema* on the path. We continued through forest patches and grassy areas to a cluster of houses known as Sampaia (now inhabited by only 1 family) around 1000m elev. Continued uphill on a rougher trail that got into

Rovito, Sean
2011

Journal

Aug. 11

Cerro San Hil, Dept. Chimal, Guatemala (cont.)

... some forest around 1100m that looked transitional between lowland forest and cloud forest. Trees had no buttresses, fewer palms, some bromeliads (small), a few tree ferns and more moss. We opened 17 bromeliads (13:00-13:40) and looked in some very good logs (11:30-12:30) but found ~~nothing~~ only a single B. rufescens in a small bromeliad w/ little water. The other bromeliads, some of which seemed quite good, had a lot of water in them. We began walking towards the high point of Cerro San Hil, searching slowly along the way in logs and leaf litter, from 14:00 onward. There were tons of logs and the leaf litter was quite damp but I found nothing, and neither did anyone else. Reached the peak around 15:30; took a brief rest & started searching again after ~15 min. Forest here had been cut for an army tower & helipad and was secondary or regenerating; Carlos found a big tapir print. It began raining around 14:30 and continued (hard at times) until ~18:00. By 16:30, it was fairly dark and cool inside the forest and a chorus of Crangaston campbelli started all around us. Carlos got 2, Jono (quico) got 1, and I found 2 but both escaped. They were calling from areas low to the ground and in the vegetation 1-2m off the ground; seemed like an unusual call for a Crangaston - 3 sounds/syllables (all same note) instead of a single "link". Carlos got a small, yellow Crangaston w/o expanded toe tips and I got 2 Crangaston aphanus while Jono got 1 C. aphanus (all of which were on ground, not calling). We reached our lunch spot where we opened bromeliads by about 19:00, having searched slowly w/ lights along path starting at 18:00. Near the end of the forest, I caught 2 of the small yellow Crangaston. While we were waiting to get a GPS point, Carlos saw a Nototriton stuarti on a leaf about 1m off the ground, just above a big rock.

Rovito, Sean
2011

Journal

Cerro San Hil, Depto. Chimal, Guatemala (cont.)

Aug. 11

... it is an adult female and only the second known individual of the species - a great find. The habitat where it was found (~1150m elev) was still in the transitional cloud forest, and is distinctly different from the lower elevation area where the biological station is; I suspect it only lives on the upper parts of Cerro San Hil. In the same area, I got a B. rufescens + Carlos got a B. dohrni, both ~1.5m off ground on a log. We walked slowly to the edge of the forest and more rapidly afterwards; I slowed briefly to search in some forest patches below Samaria, it wasn't raining by the time we got the Ploti but more rain did fall briefly later on. Fons wanted to get back so I didn't spend much time searching, but Carlos got a C. laticeps and a Graugast we don't have yet, while I got a Therodactylus rapicaudus on the trunk of a big tree. We got back to the truck by about 21:40, totally exhausted, and made it back to the station by 22:00. A good day but extremely tiring.

Estación Biológica Chandler Robbins, Cerro San Hil, Carboneras, Depto. Chimal, Guatemala

Aug. 12

Spent morning + most of afternoon prepping. Went out after dinner + searched from 20:00-21:30 on path up to + above waterfall. I got a B. dohrni on a leaf + an Anolis capiti; Carlos got a big Graugast laticeps, and I got an Amantodes canchosa + a juv. A. capiti. Started raining hard at 22:00 and continued until 23:20. Everyone else went to bed while I searched on the path above the field station. I got a B. rufescens on a leaf, a different species of Anolis from the one we already have, a juv. Bufo stali, and a Graugast chac that was calling. Searched 23:35-00:35.

Karto, Sean
2011

Journal

Finca Fierro, Sierra Carol, Mpio. Morales, Depto. Chimal, Guatemala

Aug. 15

On the 13th, we prepped specimens in the morning, packed up, and went to Rio Dulce for the night. Fabiola, Ella, Stephanie, and Jorge Erwin left in the morning and the rest of us drove to Morales. In the night, Sergio, Maria Fernanda, Raiza, Ricardo and Rodolfo joined us from Guatemala City. Today we drove from Morales to the new FUNDAECO reserve. Got set up in the afternoon, then set out to collect + find a break in the water line to the house. Carlos, Ricardo, Ted + I walked along the hose looking for a break + got an A. bipunctatus on a tree as well as a Sphenomorphus. Forest here is in good condition; big trees w/ buttresses, palms, and fairly thick understory that seems taller than at Cerro San Hil. After attempting to repair water system, we went back for dinner and went back to a stream ~1 km from the field station. We searched along the stream for about an hour (~21:00-22:00). I saw a Craugastor supra that escaped; Carlos got another species of Craugastor. Odubert got a Bromelidryas brondecia, and I found a Plectrohyla maturai metamorph. Between the four of us, we collected 7 Duellmanohyla serria, which were calling from veg. along the stream, and saw several more. The night was totally dry with a full moon; seems like it hasn't rained here for at least a few days. Ted didn't go to search with us tonight; somewhat tired.

Aug. 16

Spent morning prepping specimens, then waited for rain; 2 storms passed w/o any rain. At 16:40, started walking uphill w/ Carlos, Ricardo and Odubert while Ted walked very slowly uphill. We searched in a couple of good logs on the way up but found nothing. Arrived at high point of trail (and reserve, I believe) at ~1000m elev. The forest above

Rovito, Sean
2011

Journal

Finca Finca, Sierra Carl, Mpio. Morales, Depto. Chimal, Guatemala (cont.)
Aug. 16 ... about 800m transitions to a more cloud forest-like vegetation type. Understory has more broadleaf plants and is denser in general, more ferns, and higher density of epiphytes including some Bromeliads. We walked ~200m along the trail from the high point and searched from 18:45-20:20. We saw a ton of Craugastor latipes and C. chae (collected 7 and 4, respectively) as well as several Duellmanohyla (collected 2), 1 Leptodeira, 2 B. rufescens (both on leaves), 1 A. cancham and 1 Sphenomorphus. Forest was very dry and I was surprised to see the Duellmanohyla out - I think of them more as a stream-associated species. Met Ted on the way down, who had gotten 1 Craugastor nephrens, 1 C. chae, + 2 C. latipes around 800m elev. Earlier in the day, I found a Portulidium nasutum under a log near the field station. Lack of rain is frustrating. Not sure we will be able to find Cryptotriton wakei even if it does rain; holotype is from 150m higher elevation than highest point on reserve. Given that Platriton bradleyi is found here and at Cusuc in Honduras, seems likely to me that C. wakei is a synonym of C. nasalis.

Aug. 17 Spent morning prepping specimens, afternoon writing notes and working around camp. After dinner, walked up to ridge along high area of reserve where we went last night and searched from 19:00-21:40 w/ Carlos, Ricardo, & Abduho. It had rained briefly this afternoon and a few more short showers fell while we were searching, but the rain didn't really penetrate the forest and conditions remained dry. We got a B. nympha, an Anolis, and Chamaeleo, and saw many C. latipes + C. chae (Carlos collected 1 latipes). Jim Patten got a Rana berlandieri + a Bufo campbelli near the field station.

Rovito, Sean
2011

Journal

Aug. 18

Finca Firmeza, Reserva Biológica de Ambar, Sierra Caral, Depto. Chimal, Guatemala
Spent the morning prepping specimens. Searched along a path near finca house from 16:30 - 17:30 but saw only a Sphenomorphus, plus a pair of woodpeckers (Colinus castaneus) in a tree. Also saw some brown-headed parrots, as on other days here. In the early afternoon, Monica from FUNDAECO came and made me do a short, live interview on a Morales radio station via cell phone as part of a PR campaign to promote the reserve. After that, a newspaper reporter from La Prensa Libre came to interview and photograph us, in order to write a story as part of said PR campaign. We then talked about several potential peaks above 1200m in the Sierra Caral to visit to try to find Gymnophthalmus roosei. Apparently, Cerro Negro Norte is only a couple hours walk from here, but we would have to cross Mario Ponce's (a local narco) property, and he doesn't allow foreigners to do it. FUNDAECO is trying to get along w/ him so we don't want to do anything to risk ruining their work. Around 17:45, a very heavy downpour quickly dumped a lot of rain and then moved on. After dinner, Carlos, Ricardo, Odulio, & I walked up to the high ridge at 20:00, arriving at 21:00. Conditions were fairly wet and seemed ideal for amphibians, although I felt like I saw fewer Rana than before. Searched from 21:00 - 23:45. I found only an A. canchosa; Odulio got a Bufo campbelli, an Anolis uniformis, and a B. nympha; Carlos got 4 B. nympha, an A. canchosa, and a Corytophanes cristatus, as well as a tiny B. differens. On the way down, they got a B. nympha ~~distans~~ calling from a small bromeliad ~1.5m off the ground, and saw an Olingo (Basileuterus gabriel) in a tree. I saw another on my way down - could tell it wasn't a kinkajou by the bushy tail after consulting field guide. We are at its extreme northern range limit and it has only recently been reported from the

Rovito, Sean
2011

Journal

Aug. 18

(cont.)

Finca Frijoles, Reserva Biológica de Amelias Sierra Coral, Depto. Chimal, Guatemala
... Sierra Coral. They got down around 01:10; I took my time and arrived at 01:30. About 50m from the field station, I found a large female Oedipina elongata on a Heliconia leaf about 70cm off the ground. It had a white spot on its head and white dots on the dorsum; very pretty. Was surprised to see it climbing - I think of them as semi-fossorial. We all talked until about 02:15, then we went out and searched along paths near the field station for ~30 min more. Carlos got an Anolis rodriguezi. Went to bed just before 3:00. Ted had searched near the field station earlier, after dinner, but found only a Bufo campbelli and a Sphenomorphus.

Aug. 19

Woke up around 08:30, exhausted from night before. Spent morning + afternoon photographing + prepping specimens and organizing/identifying previously collected specimens. Worked until dark, ate dinner, and left just ahead of the others. Shortly up the path, I saw what I first thought was a Lotos flavus sitting ~9m off the ground in a tree growing at a ~60° angle out of the ground. As I approached, I could see that it was actually a small spotted cat with a relatively long tail - a margay, I think. It ran down the slanted tree trunk and disappeared into the bushes (GPS: 15.40394°N, 88.69347°W [± 10 m], 653 m elev.). First margay I've ever seen! Obdulio caught up with me and also got a look at it. Ricardo missed it but found an Anolis capiti at the same spot. Carlos found an Amastidium scelerus just up the trail, and then a juvenile Corynorhina cristatus. Ricardo got a beautiful Oxybelis aeneus ~1m off the ground along the path - incredible how it stays still and

Rovito, Sean
2011

Journal

Aug. 19

Fuente Fierro, Reserva Biológica de Anfibios Sierra Corral, Dept. Chimal, Guatemala (cont.)
... is very camouflaged when threatened. I also saw a relatively big Marmosa in a tree on the way up. Carlos walked up to the top then waited for us due to a misunderstanding of the plan. Ricardo, Obediano, & I searched from ~900m elev. up and opened all the branchiads we could find, hoping for another Atthorshyla. We think the one we got could be a new species, since the only one nearby (A. melanoleuca) from Cusco is dirty white dorsally while ours is bright yellow. USAC is keeping the one from yesterday and I would be uncomfortable leaving the holotype there. I got a tiny Sphaerodactylus either in a branchiad or I disturbed it when I shook a branchiad on the ground. We searched at the top until ~00:45 w/o finding anything except C. laticeps and C. chac. Could hear hylids w/ a single note call high up in trees - either Branchiophyla or perhaps the Atthorshyla. Ricardo says he heard a dink-dink call yesterday, turned around, and saw the frog pecking out of a tiny branchiad at eye level on a log, but isn't sure if he heard a single 2-syllable call or two separate frogs making 1-syllable calls. In any case, we saw no more frogs. It hadn't rained today and the forest was pretty dry; no moisture on leaves at all, and very windy. Around 01:00, rain threatened, and we decided to wait for it. Stopped around 01:10, and we waited until 01:40 for the forest to get wet. In the meantime, I saw 2 Potos flavus high in the trees and got a B. nympha on a leaf. We then searched until 02:20; Carlos & Ricardo found a B. doffleini on a leaf. Walked down a very slippery trail, arrived back at 03:30. Would have searched more but Carlos & I need to drive back to Quate tomorrow. Heard howler monkeys on the way down. Lots of mammals and good herps here - glad to see it's being protected.

Raito, Sean
2011

Journal

Volcán Suchitán, Depto. Juticapa, Guatemala

Aug. 23

Drove to Guatemala City on the 20th. Went to Antigua on the 21st. Spent the 22nd sorting specimens and making export permit lists, then drove w/ Sergio Perez, Jim Patton, Kawi Bove, Rodolfo Lima, Dan Wait, Olga Sanchez, Maria Fernanda Asturias, Jose Alejandro Thiele Paul, and Ricardo Sorilla to Santa Caterina Mita, Juticapa. Spent night at Hotel Las Tres. In the morning we met Claudia Ortiz Paiz, who works for an NGO () that manages the forest on Volcán Suchitán. Drove to Horemes, then to ~~the~~ Quabracho, where we started walking uphill and got mules to carry our stuff. Started a little before 09:00 + arrived at 12:00, taking lots of rest/photo breaks on the way up. Great views of Volcán Apala, El Trifunfo and other peaks on way up. Passed through remnant oak forest, corn fields, and finally scrubby secondary forest w/ tiny bromeliads before reaching a spring (w/ very little water, which was muddy) and a big field just planted w/ pine trees where we set up camp. Ricardo and I went out into the forest on the trail to "La Piedra", one of the peaks of the volcano. Started in secondary forest, then got to somewhat disturbed cloud forest w/ lots of huge bromeliads. Our bromeliad cutter hadn't arrived yet, so we searched in a few reachable bromeliads + under some fallen ones. I got a Bolitoglossa suchitanensis under a big fallen bromeliad. It looks vaguely like a B. morio; gray with some flecks of lighter color, mostly unwebbed feet. Continued up trail to some really nice cloud forest along a ridge. Old trees, tons of bromeliads, tree ferns, and moss covering everything. Clearly lots of cloud water input. After about 90 min of searching (since we started - ~ 15:00 - 16:30), it began to rain and we hiked back to camp. Saw an Anolis in a grassy field along path. Felt sick + slept until dinner. It only rained for ~ 20 min, then became cool + misty.

Rovito, Sean
2011

Journal

Volcán Suchitán, Depto. Jutiapa, Guatemala (cont.)

Aug. 23

... We walked the same trail up to the ridge, leaving at 20:45 and searching until 22:55. Found 2 more adult B. suchitaneis, 1 on ground in cloud forest + 1 on fern just above ground in scrubby secondary vegetation. Also saw 4 juveniles (collected 2), all on leaves < 50cm above ground. I felt totally exhausted and decided to stop searching, despite favorable conditions. This salamander seems abundant here, but other herps do not.

Aug. 24

Woke up feeling sick; after breakfast, slept until 10:00. Photographed and prepped specimens, then walked w/ Ricardo to "La Piedra", a large rocky point near what I think is the center of Volcán Suchitán. We searched along the way + I got an adult B. suchitaneis under a small piece of bark. I felt exhausted all day and didn't have the energy to go back to the forest at night, so I searched in a tiny cattle pond (3x5m) in a field next to our camp. Heard Bufo calling, but only got 2 tiny juveniles; also found a Rana looking in stream coming from spring just below camp + wondered why there were no frogs or tadpoles until I saw how abundant crabs were (some quite big). Started raining really hard around 11:15; my stuff was outside tent since Ricardo didn't bring a tent + is sharing w/ me. Lots of stuff got wet and a river formed under tent - should have taken the time to build a drainage trench, since it was clearly going to rain.

Aug. 25

Spent morning prepping specimens. After lunch, walked up to second pasture along trail to La Piedra hoping to get some more Anolis. Ricardo found a large Grotalus simus under a bunch of grass, which I collected with some

Ranto, Sean
2011

Journal

Ndcan Suchitan, Depto. Jutiapa, Guatemala (cont.)

Aug. 25

... difficultly using a potato rake. We continued onward to the cloud forest above and I found a Bolitoglossa suchitanensis under a mass of fallen epiphytes. Got another one (juv., not collected) in the same manner and found some feline scat next to it (14.39859°N , 89.77949°W [$\pm 9\text{m}$], 2034 m. elev.). Continued straight along a ridge to the south instead of turning on path to La Piedra. Trees in this area seem larger and older, with extensive epiphyte cover, and clouds can be seen almost constantly coming over the ridge; of the many cloud forests I've seen, this is one of the wettest, mossiest, and mistiest. Searched in this area for ~30 min, then walked to the area de acampar below La Piedra. Turned left (SE) down slope along a path that runs parallel to a creek down a steep slope and eventually arrives in Suchitico (the town where we started). We began searching around 14:00 (just before we got the Crotalus) and stopped at 17:45. Waited for night to fall, then walked down a very steep slope to a waterfall ~10 m high at ~1850 m elev. Started searching up creek at 19:00; was difficult to follow w/ thick veg, and water goes underground at some points. We quickly got 4 adult B. suchitanensis (2 on leaves, 1 on ground, 1 on log) + saw 2 more juvs. Walked up to top (searched ~60 min along/near creek) and walked up to La Piedra, where we saw nothing. Seems like there is an unfilled hybrid niche along this stream. Chris says he's seen small green frogs w/ rough skin there, but only in the dry season - sound more like Gracilaria to me. Walked slowly back along path to our camp + saw 3 adult + 6 juv. B. suchitanensis on leaves. This salamander seems extremely abundant in the primary forest here, reminiscent of B. mombachoensis in Nicaragua. Interesting that a local endemic can be so abundant. Saw a lot of variation in background color (pale brown to very dark brown) and degree of light speckling. I didn't see a mental

Raito, Sean
2011

Journal

Volcán Suchitán, Depto. Jutiaca, Guatemala (cont.)

Aug. 26

... gland in any of the adults; not sure what the description says, but maybe this species doesn't have one. Got back to Orlako's point at ~21:50, when we stopped searching, I put the snake in my backpack (in a snake bag, of course) and very carefully walked down slippery trail to camp. It was cloudy most of the day + misty from afternoon onward. We then went to the same cattle pond just south of our camp, which had become a big lagoon filling nearly the entire field after the heavy rain last night and the shorter, lighter rain that fell after breakfast. Heard lots of Hastrophysone calling (collected 4, including an amplexed pair that laid eggs in the bag, even more Scinax stufferi (collected 2), and saw lots of big Rana (collected 2). Also collected a Bufo (cacifer?) w/ an injured left leg + paratoid gland, but heard no Bufo calling. Ricardo searched w/ me all day and Isais joined us at the frog pond.

Konto, Sean

2011

Journal

Nevado de Colima, Jalisco, Mexico

Oct. 23

Drove from Mexico City to Guadalajara with Gabriela Parra, Jorge Sanchez, Omar Becerra, picked up Ted Papenfuss at airport + spent night in Guadalajara. This morning, drove to Ciudad Guzman, then across highway on road W that passes Nevado de Colima. Took small road S toward El Fresnillo, then a small dirt road up the NE side of Nevado de Colima, which follows one of the aculeos and eventually reaches the refugio andino. We went to one of the first points w/ nice pine-oak forest (19.58893°N , $103.55711^{\circ}\text{W}$ [$\pm 9\text{m}$], 2527m elev.) + searched from 14:00-16:00 but found nothing. The forest has about an even mixture of pine + oak (mostly oak in some areas) w/ a shrubby understory + some poison oak - looks like a forest in California from the Sierra foothills. The logs are wet w/in + beneath, and leaf litter was fairly wet under first layer - good conditions. It appears to have rained here recently. We drove ~1km downhill + camped on an abandoned road. Searched along road from 17:45-19:00; I got a *Hesperis* in leaf litter. Habitat here looks good along roadbank (rock w/ cracks) but forest is either too brushy / steep to enter or somewhat dry. Searched again from 20:30-21:00 w/ lights; Jorge + Omar got another *Hesperis* but didn't collect it. The daytime high was around 23°C and it got fairly cold at night, maybe w/ a low of $\sim 5^{\circ}\text{C}$.

Oct. 24

Got a late start, because we were cold, I think. Ted says Hadar collected salamander at 7200 ft (2200m) so we walked down lower to a farm and searched in a tiny patch of pine forest from 11:45-12:00. The forest here is very disturbed and there is no more forest downhill. Ted decided I found a *Plethodon* here.

Roito, Sean
2011

Journal

Verde de Colima, Jalisco, Mexico (cont.)

Oct. 24

... to keep walking down the road while the rest of us drove back uphill to a side road that goes S from the road we came in on. We parked and searched from 12:30-13:30 in logs, leaf litter along road, under rocks. The habitat here is lower oak forest + everything seems more humid - looks like good Batrachoseps habitat. Omar got an Eleutherodactylus minicelmae under a log along the road. Went back for lunch, after which all 5 of us drove back to where we were before lunch, went about 500m more; took another turnoff downhill. This road appears to pass some houses and goes all the way downhill according to Ted. Parked near first house + searched from 16:00-19:00. I got 2 Plestiodon under boards (saw a third) in open oak forest. Much of this forest appears to have been burned at some point not in the last few years. I went further downhill through an open oak forest with a dense but low + scrubby understory, and then downhill into a canyon with very steep sides. The habitat at the bottom was quite mesic, with big oaks, some pines, and lots of rotten logs + thick leaf litter. Searched here for ~30 min around 2300m elev - looked really good for Batrachoseps. Left when it got too dark to see well; saw two foxes (I think) running up road. After dinner, searched along side road where we were this morning, from 20:30-21:30 w/o success; seemed drier than last night and somewhat windier. Temperature was again in low 20's C during the day and maybe 5-7°C at night.

Karto, Sean

2011

Journal

Parícut de Colima, Jalisco, Mexico

Oct. 25

We went back to the area where I had finished searching yesterday afternoon and looked from 10:45 - 12:45; Jorge + Omar kept searching until ~ 13:15 since they found a great area right before our arranged meeting time. I went a little further downhill and got into more open, drier oak forest w/ some large agaves. Focused on deep leaf litter along road, which looked good but produced only some *Platyedra*; also opened a bunch of logs. Then went back down into canyon on S side of road + looked in logs and deep, wet leaf litter, especially along the canyon bottom. Found 1 *Asaphis* in leaf litter. After waiting for Jorge + Omar, we spent an hour trying to get the truck back up the steep slope, with lots of pushing. Seemed like only one wheel would spin and we had to leave it there. Ted went back to camp and the rest of us walked ~ 5 km downhill to a small town. The road to the town was blocked by several landslides + totally washed out at the bottom; in town, they said all the damage was caused by a hurricane 2 weeks ago. Also said the area where we searched today, partially burned in either January or May, and that the road we walked down is "La Cuchilla" and where we camped is on the "Cerrito de los Puercos" road. A man with a tractor gave us a ride back (took ~ 1 hr), and then got the truck out after almost getting stuck himself. Given that we hadn't seen anything out at night, we decided to call it a day.

Los Mayos -

Roots, Sean

2011

Journal

Parado de Colima, Jalisco, Mexico

Oct. 26

We drove to Ciudad Guzman to get gas, then took the road to El Arullo and then the road that goes up the Parado to the refuge. Stopped to search from 11:30-11:50 at a point 5.4 km from the highway (19.61958°N , $103.56858^{\circ}\text{W}$ [$\pm 10\text{m}$], 2341 m elev.). The habitat, oak forest, was in bad shape but we got a shrew in leaf litter at the base of the roadbank. Continued to a point 6.3 km from the highway (19.61384°N , $103.56789^{\circ}\text{W}$ [$\pm 9\text{m}$], 2435 m elev.) where there is a small spring in a canyon with mixed pine-oak forest. Searched in deep leaf litter + logs from 12:00-13:05 but found nothing. Finally, went to a point 7.8 km from the highway (19.60876°N , $103.57082^{\circ}\text{W}$ [$\pm 8\text{m}$], 2616 m elev.) and searched from 13:45-14:45. Habitat was pine forest with some oak + a few Alces scattered about, with tons of really good logs; saw nothing. Started downhill to go to a Penstemon belkii locality. Ted knew on another road when the window of the truck, which already didn't work, slipped into a position where it couldn't be closed and looked like it might break. We had to go back to Ciudad Guzman to get it fixed before the mechanics closed, and ended up spending the night there.

Sean M. Rovito

2011

Photo Log #6545-7914

Rovito, Sean
2011

Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
5/25/11	6827-28	bird prepping, Laj Chime
	6829-6834	CRVA 26, <u>Anolis</u>
	6835-6842	SMR1488, <u>Sceloporus</u>
	6843-6851	SMR1490, <u>Trapidodipsas fischeri</u>
	6852-6862	SMR1491, <u>Rhadinea</u>
5/26/11	6863-6864	Bromeliads, Zona Reina near Palo Viejo hydroelectric dam
	6865-6867	habitat, "
5/27/11	6868-6869	CRVA 2675, <u>Anolis</u> , dewlap
	6870-6872	" "
	6873-6876	SMR1503, <u>Bufo bocourti</u>
5/29/11	6877, 6930-6932	working, Laj Chime
	6878-6899	CRVA 2690, <u>Dendrotriton kekchiorum</u>
	6901-6909	SMR1514, <u>B. rostrata</u>
	6910-6917	SMR1505, <u>B. lincolni</u>
	6918-6922	SMR1507, <u>Craugastor</u>
	6923-6927	SMR1518, <u>Mesaspis moreletii</u>
	6928-6929	CRVA 2690, <u>D. kekchiorum</u> , ventral
	6933-6937	Laj Chime
	6938-6947	near Palo Viejo hydroelectric dam, road to La Gloria
	6948-6950	near La Gloria, Zona Reina
	6951-6969	<u>Bolitoglossa cuchumatana</u> , 3 km from Palo Viejo dam
5/30/11	6970-6971	Palo Viejo hydroelectric dam, Zona Reina
	6972-6995	CRVA 2710, <u>Nyctanolis pernix</u>
	6996-7008	CRVA 2717, <u>Gastrophryne elegans</u>
	7009-7022	SMR 1520, <u>Plectrohyla hartwegi</u>

Rovito, Sean

2011

Photo Log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
5/30/11	7023-7032	CRVA 2698, <u>Ninia diademata</u>
	7033-7044	SMR 1536, <u>Batrachoseps aurifer</u>
	7045-7046	2 <u>Craugastor</u> species from Zona Reina in complex
	7047-7057	SMR 1526, <u>Ptychocheilus hypomelanus</u>
	7058-7062	CRVA 2715, <u>Atrypa reticularis mexicana</u>
6/4/11	7068-7084	SMR 1538, <u>Bolitoglossa morio</u>
	7085-7088	Chimatatz, prepping
5/31/11	7063-7066	Laj Chime
6/6/11	7089-7105	SMR 1558, <u>B. cuchumatana</u>
	7106-7117	SMR 1560, <u>B. morio</u>
6/7/11	7118-7126, 7137-7138	forest, NW of Chimatatz
	7127-7136, 7139-7142	Jerome + sparrow hawk, NW Chimatatz
	7143-7146	view to SE from Chimatatz
	7147-7152	shrew from NW of Chimatatz
	7153-7157	L to R, SMR 1562, 1566, 1564, 1568, 1563, 1565, 1567

Rovito, Sean
2011

Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
8/7/11	7181-7185	Rio Dulce from Backpackers Hotel
8/8/11	7192-7218	SMR1571, <u>Oedipina elongata</u>
8/9/11	7224-7232	"
	7234-7248, 7308	CRVA2786, <u>Porthidium nasutum</u>
	7249-7267	CRVA2783, <u>Corytophanes cristatus</u>
	7268-7279	SMR1575, <u>Craugastor sandersoni</u>
	7280-7283	SMR1572, <u>Craugastor chac</u>
	7285-7291	CRVA2785, <u>Craugastor laticeps</u>
	7293-7307	SMR1573, <u>Batrachoseps schlegelii</u>
	7309-7311	mammal prepping, Cerro San Gil
	7312-7321	CRVA2787, <u>Anolis uniformis</u>
	7322-7326	SMR1576, <u>Sphaerodactylus</u>
8/10/11	7327-7328	CRVA2794, <u>Sphaenodactylus</u>
	7329-7333	SMR1592, <u>Craugastor laticeps</u>
	7334-7340	CRVA2795, <u>Craugastor sandersoni</u>
	7341-7354	CRVA2802, <u>Ptychocheilus panchai</u>
	7355-7360	SMR1588, <u>Bufo campbelli</u>
	7361-7379	CRVA2792, <u>Oedipina elongata</u>
	7381-7383	SMR1593, <u>Lepidophyma flavimaculatum</u>
	7384-7393	SMR1581, <u>Micrurus diastema</u>
	7394-7400	CRVA2803, false coral snake, (~~Phacellorhina~~) <u>Coryhopus petola</u>
	7401-7405	SMR1581+CRVA2803
8/12/11	7409-7448	CRVA2819, <u>Nototriton stuarti</u>
	7449-7459	SMR1605, <u>Craugastor aphanus</u>
	7460-7465	SMR1604, <u>Craugastor campbelli</u>
	7466-7472	SMR1607, <u>Craugastor</u>

Rovito, Sean
2011

Photo Log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
8/12/11	7473-7478	CRVA2821, <u>Craugastor</u>
	7479-7484	SMR1602, <u>Sibon nebulatus</u>
	7485-7489	SMR1611, <u>Thecadactylus rapicaudus</u>
	7490-7492	CRVA2822, <u>Clelia clelia</u>
8/13/11	7493-7502	SMR1616, <u>Anolis capito</u>
	7503-7509	SMR1619, <u>Anolis</u>
	7510-7517	Cerro San Gil, field station and forest
8/14/11	7518-7523	Rio Dulce from highway bridge
8/15/11	7524-7527	Sierra Coral, view from road at Finca Firmeza guard house
8/16/11	7528-7542	SMR1623, <u>Duellmanohyla soralia</u>
	7543-7555	SMR1626, <u>Brameliodon bramei</u>
	7556-7570	SMR1627, <u>Craugastor nephrens</u> ?
	7571	land crab for dinner, Finca Firmeza
8/17/11	7572-7593	SMR1641, <u>Craugastor nephrens</u>
	7594-7601	CRVA2861, <u>Anolis biporcatus</u>
	7602-7605	Ricardo w/ <u>I. cecilia</u> (CRVA2857)
	7607-7610	CRVA2859, <u>Anolis</u>
	7611-7616	CRVA2854, <u>Leptodeira septentrionalis</u>
	7617-7622	Sierra Coral forest from Finca Firmeza
8/18/11	7623-7635	SMR1646, <u>Bolitoglossa nympha</u>
	7636-7643	SMR1648, <u>Bufo campbelli</u>
	7644*	SMR1650, <u>Ameiva festiva</u>
8/19/11	7645-7667	<u>Vampirum spectrum</u>
	7668-7689	JANP56, <u>Micronotus minutus</u>
	7690-7700	SMR1655, <u>Caryophanes cristatus</u>

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Rovito, Sean
2011

Photo Log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
8/19/11	7701-7720	SMR1656, <u>Oedipina elongata</u>
	7721-7733	CRVA 2870, <u>Isthmohyla</u> sp.
	7734-7746	SMR1657, <u>Anolis rodriguezi</u>
8/20/11	7747-7756	CRVA 2872, <u>Amastridium</u> saepi
	7757-7772	SMR1659, <u>Oxybelis aeneus</u>
	7773-7774	Finca Firmeza field station
	7775-7777	students, Sierra Caral
	7778-7780	Ponce Finca? Sierra Caral
	7781	view from Sierra Caral to N
8/23/11	7782	Volcán Ipala from climb up Volcán Suchitan
8/24/11	7783-7796	SMR1663, <u>B. suchitanensis</u>
	7797-7809	SMR1662, "
	7810-7812	SMR1664, "
	7813-7816	field camp, Volcán Suchitan
	7817-7824	RCKB1715, <u>Momotus momota</u>
	7825-7829, 7844-7846	cloud forest, Volcán Suchitan
	7830-7843	views from La Piedra, Volcán Suchitan
	7847-7859	SMR1667, <u>B. suchitanensis</u> , in wild
	7860-7862	view W from Volcán Suchitan
8/26/11	7863-7891	SMR1671, <u>Crotalus sinuatus</u>
	7892-7898	SMR1683, <u>Hypopachus variolosus</u>
	7900-7904	SMR1687, <u>Scinax stanfferi</u>
	7905-7907	SMR1688, <u>Bufo</u> <u>coccyfer</u>
	7908-7912	SMR1680, <u>Rana maculata</u>
8/27/11	7913-7914	cattle pond where frogs found, Volcán Suchitan

Main body of handwritten text, appearing to be a list or ledger with multiple columns and entries.

Sean M. Rovito

2012

Catalogue #1700-2056

Guatemala: Chimaltenango, El Quiche,
Huehuetenango, Jutiapa,
Quezaltenango, San Marcos, Santa
Rosa, Solola, Suchitepequez

Mexico: Chiapas, Hidalgo, Jalisco,
Nuevo Leon, Queretaro, San Luis Potosi,
Tamaulipas

REPORT ON THE

EXPERIMENT

ON THE EFFECT OF

THE VARIATION OF THE TEMPERATURE OF THE MEDIUM ON THE RATE OF REACTION OF THE SUBSTANCE WITH THE REAGENT.

BY

DR. J. D. HARRIS

Rovito, Sean
2012

Catalogue

1.7 km NE (by air) of main buildings of Finca Magnolia Miramar, W slope of Volcán Lacandén, Mpio. Colombia Costa Cuca, Depto. Quetzaltenango, Guatemala

Jan. 11 14.80874° N, 91.73937° W [± 11 m], 1685 m elev.

132439 SMR 1700 Craugastor lineatus adult RNALater - L 1/12/12

132440 1701 Anolis juv. ♂ " "

2.1 km NE (by air) "

Jan. 11 14.81202° N, 91.73695° W [± 7 m], 1912 m elev.

132441 SMR 1702 Bolitoglossa engelhardti adult ♀ RNALater - L 1/12/12

132442 1703 " " juv. " "

132443 1704 Craugastor cupinius adult " "

132444 1705 " " adult " "

Labor Santiago, 0.5 km NE (by rd) of center of Genera Costa Cuca, Mpio. Flores Costa Cuca, Depto. Quetzaltenango, Guatemala

Jan. 12 14.65575° N, 91.82798° W [± 8 m], 422 m elev.

132445 SMR 1706 Bolitoglossa salvinii adult EtoH RNALater - L 1/12/12

132446 1707 Scinax stantieri adult RNALater - L 1/12/12

13.5 km S (by rd) of Finca Magnolia Miramar on road to highway between CA-2 and Colombia Costa Cuca, Mpio. Colombia Costa Cuca, Depto. Quetzaltenango, Guatemala

Jan. 12 SMR 1708 Craugastor loki juv. RNALater - L, I 1/12/12

132447 1709 " " juv. " "

132448 1710 Anolis dollfusianus adult ♂ RNALater - L 1/12/12

132449 1711 " " adult ♂ " "

14.73707° N, 91.72922° W [± 14 m], 808 m elev.

YR: 2012	NAME: Sean Rovito	SPECIMEN CATALOG		PAGE #:	
☒ Skin ☐ Skel. ☐ ETOH ☐ Other ☐ Audio ☐ Photo FN _____ ☐ Shot ☐ Net ☐ Salvage	#1712	Locality: Volcán Lacandón, 1680m, Municipio Colombia Costa Cuca, Depto. Quetzaltenango, Guatemala			
		Lat: 14.81215°N	Long: 91.74356°W		
		GPS Error: 11 ft.	Extent: 15m	Datum: WGS84	
		Date collected: Jan 12, 2012		Date prepared: Jan 12, 2012	
		Species: <i>Chlorospingus ophthalmicus</i>		Wt: 16.5g	
		Tiss: ☐ Froz ☒ Other RNALater Types: H, M, K, Br, Eye, L, M-ETOH Barcode #:			
		☐ M ☒ F ☐ sex?	Skull: 100% ossified	Fat: no fat	
		Repro.: Ovary granular, ova minute			
		Molt: no molt			
		Colors:	Stomach: seeds		
		Habitat:			
		Notes: Net 3 07:45 Death ~~07:45~~ - dead in bag			
		Barcodes: L - 131919; H, M, K - 131917; E, Br, Ovary - 131918			
	☒ Skin ☐ Skel. ☐ ETOH ☐ Other ☐ Audio ☐ Photo FN _____ ☐ Shot ☐ Net ☐ Salvage	#SMR1713	Locality: Volcán Lacandón, 1680m, Municipio Colombia Costa Cuca, Depto. Quetzaltenango, Guatemala		
			Lat: 14.81249°N	Long: 91.74290°W	
		GPS Error: 10 ft.	Extent: 12m	Datum: WGS84	
		Date collected: 12 Jan 2012		Date prepared: 12 Jan 2012	
		Species: <i>Catharus ustulatus</i>		Wt: 26.5g	
		Tiss: ☐ Froz ☒ Other RNALater Types: Barcode #:			
		☐ M ☒ F ☐ sex?	Skull: 100% ossified	Fat: slight fat	
		Repro.: Ovary granular, ova minute			
		Molt: no molt			
		Colors:	Stomach: empty		
		Habitat:			
		Notes: Net 5, time not recorded Death 23:55, tissues 00:15-00:20			
		Barcodes: L - 1318398; H, M, K - 131852; E, Br - 131853			
☐ Skin ☐ Skel. ☐ ETOH ☐ Other ☐ Audio ☐ Photo FN _____ ☐ Shot ☐ Net ☐ Salvage		#	Locality:		
			Lat:	Long:	
		GPS Error:	Extent:	Datum:	
		Date collected:		Date prepared:	
		Species:		Wt:	
		Tiss: ☐ Froz ☐ Other _____ Types: Barcode #:			
		☐ M ☐ F ☐ sex?	Skull:	Fat:	
		Repro.:			
		Molt:			
		Colors:	Stomach:		
		Habitat:			
		Notes:			

Rovito, Sean
2012

Catalogue

Volcán Lacandón, Mpio. Colombia Costa Cuca, Depto. Quetzaltenango,
Guatemala

Jan. 12 14.81215°N, 91.74356°W [$\pm 5m$], 1680m elev.

SMR1712 Chlorospingus ophthalmicus adult ♀ wt 16.5g, no fat

skull 100% ossified; no molt; stomach contents - seeds; ovary granular, ova minute

H, M, K/
RNA Later - L / Eye, Brain, Ovary ETOH - L, M

14.81249°N, 91.74290°W [$\pm 4m$], 1680m elev.

SMR1713 Catherus ustulatus adult ♀ wt 26.5g, slight fat

skull 100% ossified; no molt; stomach empty; ovary granular, ova minute

H, M, K/
RNA Later - L / E, Br, Ov ETOH - L, M

Finca Varillas, W slope of Volcán Lacandón, Mpio. Colombia Costa Cuca,
Depto. Quetzaltenango, Guatemala

Jan. 11 14.81171°N, 91.74599°W [$\pm 10m$], 1558m elev.

132451 SMR1714 Anolis dollfusianus RNA Later - L 1/14/12

San Marcos municipal forest, ca. 200m S of high point on road from El Rincón to
Barranca de Galvez, Mpio. San Marcos, Depto. San Marcos, Guatemala

Jan. 13 14.97006°N, 91.83456°W [$\pm 9m$], 2690m elev.

132452 SMR1715 Abronia aurita juv. ETOH
RNA Later - L 1/14/12

San Marcos municipal forest, at high point on road "

Jan. 13 14.97273°N, 91.83759°W [$\pm 7m$], 2716m elev.

132453 SMR1716 Dendrotriton bromeliacis juv. RNA Later - L, I 1/14/12

Rovito, Sean
2012

Catalogue

1.0 km NE (by air) of Finca house^{of}, Finca Varillas, W slope of Volcán Lacandón, Mpio. Colombia Costa Cuca, Depto. Quetzaltenango, Guatemala

Jan. 14 14.81359°N, 91.73775°W [± 7 m], 1918m elev.

132454 SMR1717 Bolitoglossa engelhardti adult ♀ RNALater-L 1/14/12

132455 1718 " " juv. RNALater-L, I 1/14/12

132456 1719 " " juv. " "

132457 1720 " " juv. " "

2.8 km NE (by air) of main buildings of Finca Magnolia Miramar, W slope of Volcán Lacandón, Mpio. Colombia Costa Cuca, Depto. Quetzaltenango, Guatemala

Jan. 14 14.81620°N, 91.73212°W [± 8 m], 2128m elev.

132458 SMR1721 Craugastor rupinius adult RNALater-L 1/14/12

0.7 km NE (by air) of ~~main buildings~~^{Finca house} of Finca ~~Magnolia Miramar~~^{Varillas}, W slope of Volcán Lacandón, Mpio. Colombia Costa Cuca, Depto. Quetzaltenango, Guatemala

Jan. 14 14.81281°N, 91.74042°W [± 10 m], 1704 m elev.

132459 SMR1722 Craugastor lineatus juv. RNALater-L 1/14/12

132460 1723 Craugastor stuarti adult ♀ " "

Main buildings of Finca Magnolia Miramar, Mpio. Colombia Costa Cuca, Depto. Quetzaltenango, Guatemala

Jan. 14 14.79746°N, 91.74946°W [± 6 m], 1401m elev.

132461 SMR1724 Craugastor loki adult RNALater-L 1/14/12

Notes

1. The first part of the paper discusses the importance of maintaining accurate records of all transactions. It is essential for the company to have a clear and concise system in place to ensure that all data is properly recorded and stored. This will allow for easy access and retrieval of information when needed.

2. The second part of the paper focuses on the importance of regular communication and collaboration between all team members. It is crucial for everyone to stay informed about the company's goals and objectives, as well as the progress of various projects. Regular meetings and updates will help to ensure that everyone is working towards the same goals and that any issues are identified and resolved promptly.

3. The third part of the paper discusses the importance of maintaining a high level of professionalism and integrity in all business dealings. It is essential for the company to adhere to all applicable laws and regulations, as well as to maintain a strong reputation in the industry. This will help to build trust and confidence among clients and partners, which is essential for long-term success.

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Catalogue

5.2 Km NW (by air) of entrance to Finca San Jerónimo Miramar, SE slope of
Volcán Atitlán, Depto. Suchitepéquez, Guatemala

Jan. 17	14.56208°N, 91.16911°W [± 7 m], 1960m elev.			
132462	SMR1725 <u>Bolitoglossa engelhardti</u>	adult ♀	RNA Later-L	1/17/12
132463	1726 "	" adult	"	"
132464	1727 "	" juv.	RNA Later-L, I	1/17/12
132465	1728 "	" juv.	"	"
132466	1729 "	" juv.	"	"

5.5 Km NW (by air) of entrance to Finca San Jerónimo Miramar, SE slope of
Volcán Atitlán, Depto. Solalá, Guatemala

Jan. 17	14.56444°N, 91.17082°W [± 8 m], 2133m elev.			
132467	SMR1730 <u>B. engelhardti</u>	juv.	RNA Later-L, I	1/17/12

6.3 Km NW (by air) of entrance to Finca San Jerónimo Miramar, SE slope of
Volcán Atitlán, Depto. Solalá, Guatemala

Jan. 17	14.56977°N, 91.17522°W [± 7 m], 2536m elev.			
132468	SMR1731 <u>B. engelhardti</u>	subadult	RNA Later-L	1/17/12
132469	1732 <u>Bolitoglossa morio</u>	subadult	RNA Later-L, I	1/18/12

1.5 Km NW (by rd) of entrance to Finca ~~Mir~~ San Jerónimo Miramar,
S slope of Volcán Atitlán, Depto. Suchitepéquez, Guatemala

Jan. 17	14.54583°N, 91.14059°W [± 9 m], 1138m elev.			
132470	SMR1733 <u>Bufo marinus</u>	juv.	RNA Later-L	1/17/12

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Catalogue

3.3 km NW (by air) of entrance to Finca San Jerónimo Miramar, SE slope of Volcán Atitlán, Depto. Suchitepéquez, Guatemala

Jan. 18 14.54751°N, 91.15781°W [$\pm 8m$], 1299m elev.

132471 SMR1734 Bolitoglossa engelhardti subadult RNALater - L, I 1/19/12

132472 1735 Craugastor loki RNALater - L 1/18/12

0.6 km W (by rd) of entrance to Finca San Jerónimo Miramar, SE slope of Volcán Atitlán, Depto. Suchitepéquez, Guatemala

Jan. 18 14.53293°N, 91.13788°W [$\pm 10m$], 859m elev.

132473 SMR1736 Craugastor loki RNALater - L 1/18/12

Mpio. Pochuta

Chimaltenango

7.9 km SW (by rd) of center of Pochuta on road to Patulul, Depto. ~~Suchitepéquez~~ Guatemala

Jan. 18 14.51386°N, 91.11942°W [$\pm 4m$], 704m elev.

132474 SMR1737 Craugastor loki adult RNALater - L 1/18/12

132475 1738 " " juv. " "

3.3 km NW (by air) of entrance to ^{Finca} San Jerónimo Miramar, SE slope of Volcán Atitlán, Depto. Suchitepéquez, Guatemala

Jan. 18 14.54751°N, 91.15781°W [$\pm 8m$], 1299m elev.

132476 SMR1739 Craugastor loki adult RNALater - L 1/19/12

132477 1740 " " adult " "

132478 1741 " " adult " "

132479 1742 " " adult " "

132480 1743 " " adult " "

132481 1744 Plectrohyla matudai adult ♀ " "

Rovito, Sean
2012

Catalogue

3.3 km NW (by air) of entrance to Finca San Jerónimo Miramar, SE slope of
Volcán Atitlán, Depto. Suchitepéquez, Guatemala

Jan. 18 14.54751°N, 91.15781°W [$\pm 8m$], 1299m elev.

132482	SMR 1745	<u>Plectrohyla</u> <u>matudai</u>	adult ♂	RNALater-L	1/19/12
132483	1746	" "	adult ♂	"	"
132484	1747	<u>Anolis</u> <u>dolffusianus</u>	adult ♀	"	"
132485	1748	<u>Anolis</u> "	juv. ♂	"	"
132486	1749	<u>Imantodes</u> <u>cenchoa</u>	juv., 305mm SVL	"	"
132487	1750	<u>Bothriechis</u> <u>bicolor</u>	juv., 235mm SVL	"	"
132490	1753	<u>Anolis</u> <u>dolffusianus</u>	juv. ♀	"	"

Cerro Balamjuyu, 12.5 km SW (by rd) of highway from Patzún to
Patzún, Depto. Chimaltenango, Guatemala

Jan. 19 14.61400°N, 90.99940°W [$\pm 5m$], 2704m elev.

132488	SMR 1751	<u>Mesaspis</u> <u>moreletii</u>	subadult	RNALater-L	1/19/12
132489	1752	<u>Anolis</u> <u>crassulus</u>	adult ♂	RNALater-L	1/20/12

0.6 km W (by rd) of entrance to Finca San Jerónimo Miramar, SE slope of
Volcán Atitlán, Mpio. Patzún, Depto. Suchitepéquez, Guatemala

Jan. 19 14.53293°N, 91.11942°W [$\pm 10m$], 859m elev.

132491	SMR 1754	<u>Ptychohyla</u> <u>enthysanota</u>	adult ♀	RNALater-L	1/20/12
132492	1755	<u>Rana</u> <u>maculata</u>	adult	"	"
132493	1756	" "	adult	"	"
132494	1757	" "	adult	"	"
132495	1758	" "	subadult	"	"
132496	1759	<u>Craugastor</u> <u>rupinius</u>	adult	"	"

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2012

Catalogue

0.6 Km W (by rd) of entrance to Finca San Jerónimo Miramar, SE slope of
Volcán Atitlán, Mpio. Patulul, Depto. Suchitepéquez, Guatemala

Jan. 19 14.53293°N, 91.11942°W [$\pm 10m$], 859m elev.

132497 SMR1760 Craugastor cupinius adult RNALater-L 1/20/12

132498 1761 " " adult " "

132499 1762 " " adult " "

153814 1763 " " juv. " "

153815 1764 " " juv. " "

153816 1765 " " juv. " "

153817 1766 Anolis dollfusianus adult ♂ " "

153818 1767 Leptodeira septentrionalis adult ♂ " "

- SMR1765 (died in bag (injured when collected))

Comunidad Agrícola La Concha, 5.6 Km N (by rd) of center of San
Juan Bautista, Mpio. San Juan Bautista, Depto. Suchitepéquez, Guatemala

Jan. 20 14.45635°N, 91.18838°W [$\pm 7m$], 678m elev.

153819 SMR1768 Anolis dollfusianus adult ♂ RNALater-L 1/20/12

153820 1769 Anolis serranoi adult ♂ " "

153821 1770 Lepidophyma ~~smithi~~ ^{smithi} juv. " "

153822 1771 Ameiva undulata juv. " "

153823 1772 Sphenomorphus assatus adult " "

0.6 Km W (by rd) of entrance to Finca San Jerónimo Miramar, SE slope of
Volcán Atitlán, Mpio. Patulul, Depto. Suchitepéquez, Guatemala

Jan. 20 14.53293°N, 91.11942°W [$\pm 10m$], 859m elev.

153824 SMR1773 Ptychochyla euthysanota adult ♂ RNALater-L 1/20/12

153825 1774 " " adult ♂ " "

Table 1: Summary of Data			
Year	Category	Value	Unit
2010	A	100	kg
2011	A	120	kg
2012	A	150	kg
2013	A	180	kg
2014	A	200	kg
2015	A	220	kg
2016	A	250	kg
2017	A	280	kg
2018	A	300	kg
2019	A	320	kg
2020	A	350	kg
2021	A	380	kg
2022	A	400	kg
2023	A	420	kg
2024	A	450	kg
2025	A	480	kg
2026	A	500	kg
2027	A	520	kg
2028	A	550	kg
2029	A	580	kg
2030	A	600	kg
2031	A	620	kg
2032	A	650	kg
2033	A	680	kg
2034	A	700	kg
2035	A	720	kg
2036	A	750	kg
2037	A	780	kg
2038	A	800	kg
2039	A	820	kg
2040	A	850	kg
2041	A	880	kg
2042	A	900	kg
2043	A	920	kg
2044	A	950	kg
2045	A	980	kg
2046	A	1000	kg
2047	A	1020	kg
2048	A	1050	kg
2049	A	1080	kg
2050	A	1100	kg
2051	A	1120	kg
2052	A	1150	kg
2053	A	1180	kg
2054	A	1200	kg
2055	A	1220	kg
2056	A	1250	kg
2057	A	1280	kg
2058	A	1300	kg
2059	A	1320	kg
2060	A	1350	kg
2061	A	1380	kg
2062	A	1400	kg
2063	A	1420	kg
2064	A	1450	kg
2065	A	1480	kg
2066	A	1500	kg
2067	A	1520	kg
2068	A	1550	kg
2069	A	1580	kg
2070	A	1600	kg
2071	A	1620	kg
2072	A	1650	kg
2073	A	1680	kg
2074	A	1700	kg
2075	A	1720	kg
2076	A	1750	kg
2077	A	1780	kg
2078	A	1800	kg
2079	A	1820	kg
2080	A	1850	kg
2081	A	1880	kg
2082	A	1900	kg
2083	A	1920	kg
2084	A	1950	kg
2085	A	1980	kg
2086	A	2000	kg
2087	A	2020	kg
2088	A	2050	kg
2089	A	2080	kg
2090	A	2100	kg
2091	A	2120	kg
2092	A	2150	kg
2093	A	2180	kg
2094	A	2200	kg
2095	A	2220	kg
2096	A	2250	kg
2097	A	2280	kg
2098	A	2300	kg
2099	A	2320	kg
2100	A	2350	kg
2101	A	2380	kg
2102	A	2400	kg
2103	A	2420	kg
2104	A	2450	kg
2105	A	2480	kg
2106	A	2500	kg
2107	A	2520	kg
2108	A	2550	kg
2109	A	2580	kg
2110	A	2600	kg
2111	A	2620	kg
2112	A	2650	kg
2113	A	2680	kg
2114	A	2700	kg
2115	A	2720	kg
2116	A	2750	kg
2117	A	2780	kg
2118	A	2800	kg
2119	A	2820	kg
2120	A	2850	kg
2121	A	2880	kg
2122	A	2900	kg
2123	A	2920	kg
2124	A	2950	kg
2125	A	2980	kg
2126	A	3000	kg
2127	A	3020	kg
2128	A	3050	kg
2129	A	3080	kg
2130	A	3100	kg
2131	A	3120	kg
2132	A	3150	kg
2133	A	3180	kg
2134	A	3200	kg
2135	A	3220	kg
2136	A	3250	kg
2137	A	3280	kg
2138	A	3300	kg
2139	A	3320	kg
2140	A	3350	kg
2141	A	3380	kg
2142	A	3400	kg
2143	A	3420	kg
2144	A	3450	kg
2145	A	3480	kg
2146	A	3500	kg
2147	A	3520	kg
2148	A	3550	kg
2149	A	3580	kg
2150	A	3600	kg
2151	A	3620	kg
2152	A	3650	kg
2153	A	3680	kg
2154	A	3700	kg
2155	A	3720	kg
2156	A	3750	kg
2157	A	3780	kg
2158	A	3800	kg
2159	A	3820	kg
2160	A	3850	kg
2161	A	3880	kg
2162	A	3900	kg
2163	A	3920	kg
2164	A	3950	kg
2165	A	3980	kg
2166	A	4000	kg
2167	A	4020	kg
2168	A	4050	kg
2169	A	4080	kg
2170	A	4100	kg
2171	A	4120	kg
2172	A	4150	kg
2173	A	4180	kg
2174	A	4200	kg
2175	A	4220	kg
2176	A	4250	kg
2177	A	4280	kg
2178	A	4300	kg
2179	A	4320	kg
2180	A	4350	kg
2181	A	4380	kg
2182	A	4400	kg
2183	A	4420	kg
2184	A	4450	kg
2185	A	4480	kg
2186	A	4500	kg
2187	A	4520	kg
2188	A	4550	kg
2189	A	4580	kg
2190	A	4600	kg
2191	A	4620	kg
2192	A	4650	kg
2193	A	4680	kg
2194	A	4700	kg
2195	A	4720	kg
2196	A	4750	kg
2197	A	4780	kg
2198	A	4800	kg
2199	A	4820	kg
2200	A	4850	kg
2201	A	4880	kg
2202	A	4900	kg
2203	A	4920	kg
2204	A	4950	kg
2205	A	4980	kg
2206	A	5000	kg
2207	A	5020	kg
2208	A	5050	kg
2209	A	5080	kg
2210	A	5100	kg
2211	A	5120	kg
2212	A	5150	kg
2213	A	5180	kg
2214	A	5200	kg
2215	A	5220	kg
2216	A	5250	kg
2217	A	5280	kg
2218	A	5300	kg
2219	A	5320	kg
2220	A	5350	kg
2221	A	5380	kg
2222	A	5400	kg
2223	A	5420	kg
2224	A	5450	kg
2225	A	5480	kg
2226	A	5500	kg
2227	A	5520	kg
2228	A	5550	kg
2229	A	5580	kg
2230	A	5600	kg
2231	A	5620	kg
2232	A	5650	kg
2233	A	5680	kg
2234	A	5700	kg
2235	A	5720	kg
2236	A	5750	kg
2237	A	5780	kg
2238	A	5800	kg
2239	A	5820	kg
2240	A	5850	kg
2241	A	5880	kg
2242	A	5900	kg
2243	A	5920	kg
2244	A	5950	kg
2245	A	5980	kg
2246	A	6000	kg
2247	A	6020	kg
2248	A	6050	kg
2249	A	6080	kg
2250	A	6100	kg
2251	A	6120	kg
2252	A	6150	kg
2253	A	6180	kg
2254	A	6200	kg
2255	A	6220	kg
2256	A	6250	kg
2257	A	6280	kg
2258	A	6300	kg
2259	A	6320	kg
2260	A	6350	kg
2261	A	6380	kg
2262	A	6400	kg
2263	A	6420	kg
2264	A	6450	kg
2265	A	6480	kg
2266	A	6500	kg
2267	A	6520	kg
2268	A	6550	kg
2269	A	6580	kg
2270	A	6600	kg
2271	A	6620	kg
2272	A	6650	kg
2273	A	6680	kg
2274	A	6700	kg
2275	A	6720	kg
2276	A	6750	kg
2277	A	6780	kg
2278	A	6800	kg
2279	A	6820	kg
2280	A	6850	kg
2281	A	6880	kg
2282	A	6900	kg
2283	A	6920	kg
2284	A	6950	kg
2285	A	6980	kg
2286	A	7000	kg
2287	A	7020	kg
2288	A	7050	kg
2289	A	7080	kg
2290	A	7100	kg
2291	A	7120	kg
2292	A	7150	kg
2293	A	7180	kg
2294	A	7200	kg
2295	A	7220	kg
2296	A	7250	kg
2297	A	7280	kg
2298	A	7300	kg
2299	A	7320	kg
2300	A	7350	kg
2301	A	7380	kg
2302	A	7400	kg
2303	A	7420	kg
2304	A	7450	kg
2305	A	7480	kg
2306	A	7500	kg
2307	A	7520	kg
2308	A	7550	kg
2309	A	7580	kg
2310	A	7600	kg
2311	A	7620	kg
2312	A	7650	kg
2313	A	7680	kg
2314	A	7700	kg
2315	A	7720	kg
2316	A	7750	kg
2317	A	7780	kg
2318	A	7800	kg
2319	A	7820	kg
2320	A	7850	kg
2321	A	7880	kg
2322	A	7900	kg
2323	A	7920	kg
2324	A	7950	kg
2325	A	7980	kg
2326	A	8000	kg
2327	A	8020	kg
2328	A	8050	kg
2329	A	8080	kg
2330	A	8100	kg
2331	A	8120	kg
2332	A	8150	kg
2333	A	8180	kg
2334	A	8200	kg
2335	A	8220	kg
2336	A	8250	kg
2337	A	8280	kg
2338	A	8300	kg
2339	A	8320	kg
2340	A	8350	kg
2341	A	8380	kg
2342	A	8400	kg
2343	A	8420	kg
2344	A	8450	kg
2345	A	8480	kg
2346	A	8500	kg
2347	A	8520	kg
2348	A	8550	kg
2349	A	8580	kg
2350	A	8600	kg
2351	A	8620	kg
2352	A	8650	kg
2353	A	8680	kg
2354	A	8700	kg
2355	A	8720	kg
2356	A	8750	kg
2357	A	8780	kg
2358	A	8800	kg
2359	A	8820	kg
2360	A	8850	kg
2361	A	8880	kg
2362	A	8900	kg
2363	A	8920	kg
2364	A	8950	kg
2365	A	8980	kg
2366	A	9000	kg
2367	A	9020	kg
2368	A	9050	kg
2369	A	9080	kg
2370	A	9100	kg
2371	A	9120	kg
2372	A	9150	kg
2373	A	9180	kg
2374	A	9200	kg
2375	A	9220	kg
2376	A	9250	kg
2377	A	9280	kg
2378	A	9300	kg
2379	A	9320	kg
2380	A	9350	kg
2381	A	9380	kg

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2012

Catalogue

Summit of Cerro Mozotal, 3.7 km (by rd) W of highway from Motozintla to Siltepec, Mpio. Motozintla, Chiapas, Mexico

May 3 15.42554°N, 92.34224°W [$\pm 8m$], 3009 m elev.
SMR1775 Bolitoglossa franklini nigrotarascens juv. RNALater-L 5/8/12

PEMEX station, Madre Vieja, 16.5 km S (by rd) of Mapastepec on Hwy 200, Mpio. Acacoyagua, Chiapas, Mexico

May 5 15.37685°N, 92.75952°W [$\pm 6m$], 67m elev.
SMR1776 Scinax stantferi adult ♀ RNALater-L 5/8/12

Cabañas Siempre Verde, 3.2 km SE (by rd) of entrance to Pueblo Nuevo Salistahuacán, ^{on Hwy 195} Mpio. Pueblo Nuevo Salistahuacán, Chiapas, Mexico

May 6 17.14407°N, 92.88743°W [$\pm 8m$], 1630m elev.
SMR1777 Anolis hobartsmithi adult ♂ RNALater-L 5/8/12

4.8 km SW (by air) of El Fresnillo, NE slope of Nevado de Colima, Mpio. Ciudad de Guzman, Jalisco, Mexico

June 5 19.58255°N, 103.54938°W [$\pm 6m$], 2303m elev.

NVZ Barcode 178757 SMR1778 Plestiodon brevicastris adult ♂ RNALater-L 6/8/12

1779 Geophis bicolor ^{260mm} SVL adult RNALater-L 6/8/12

178758 1780 Storeria storerioides adult ♀ ^{221mm} SVL RNALater-L 6/8/12

3.1 km SW (by air) of El Fresnillo, "

June 5 19.58621°N, 103.55668°W [$\pm 9m$], 2436m elev.

178759 SMR 1781 Eleutherodactylus nivicolimae adult RNALater-L 6/8/12

Introduction

The purpose of this study is to investigate the effects of various factors on the growth and development of plants. The study was conducted over a period of six months, during which time the plants were grown under different conditions. The results of the study are presented in the following sections.

The first section discusses the methods used in the study, including the selection of plant species, the design of the experiment, and the data collection process. The second section presents the results of the study, showing the growth and development of the plants under different conditions. The third section discusses the implications of the results, and the fourth section provides a conclusion.

The study found that the growth and development of plants are influenced by a number of factors, including light, temperature, and water. The results show that plants grown under optimal conditions grow faster and larger than those grown under sub-optimal conditions. This suggests that the growth and development of plants can be controlled by manipulating these factors.

The study also found that the growth and development of plants are influenced by the type of soil used. Plants grown in rich soil grow faster and larger than those grown in poor soil. This suggests that the type of soil used can also be a factor in controlling the growth and development of plants.

The results of the study have important implications for agriculture. By understanding the factors that influence the growth and development of plants, farmers can optimize their growing conditions to produce larger and healthier crops. This can lead to increased yields and improved quality of the crops.

In conclusion, the study found that the growth and development of plants are influenced by a number of factors, including light, temperature, water, and soil. By manipulating these factors, farmers can optimize their growing conditions to produce larger and healthier crops. This study provides valuable information for farmers and researchers alike.

Rovito, Sean
2012

Catalogue

Microondas La Pinguica, 7.4 km N (by rd) of MX Hwy 120, Mpio. Pinal de Amoles, Querétaro, Mexico

June 7 21.15656°N, 99.68901°W [$\pm 4m$], 3064m elev.

Barcode MVZ 178760	SMR 1782	<u>Pseudoeurycea</u> sp. nov.	adult	
178761	1783	"	" adult ♀	RNA Later-L 6/8/12
	1784	"	" adult ♀	" "
	1785	"	" adult	RNA Later-L, I 6/8/12
178762	1786	"	" adult ♀	RNA Later-L, I 6/8/12
178763	1787	"	" adult ♂	RNA Later-L, I 6/8/12
	1788	"	" adult ♂	RNA Later-L 6/8/12
	1789	"	" adult	RNA Later-L 6/8/12
178764	1790	"	" subadult	RNA Later-L, I 6/8/12
178765	1791	<u>Pseudoeurycea bellii</u>	adult	RNA Later-L 6/8/12
	1792	"	" juv.	RNA Later-L, I 6/8/12
	1793	"	" juv.	RNA Later-L, I 6/8/12
178766	1794	"	" juv.	" "
178767	1795	<u>Crotalus aguilus</u>	juv. 200mm SVL	RNA Later
178768	1796	<u>Plestiodon lynce</u>	adult	RNA Later-L 6/8/12
	1797	<u>Sceloporus</u>	adult ♂	RNA Later- 6/8/12

"El Coni", 900m SSE of center of Durango, Parque Nacional los Mármolles, Mpio. Zimapan, Hidalgo, Mexico

June 8 20.88812°N, 99.22618°W [$\pm 9m$], 2234m elev.

178769	SMR 1798	<u>Chiropterotriton magnipes</u>	adult ♂	RNA Later-L 6/8/12
		- injured while collecting		

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Catalogue

2.5 Km N (by rd) of El Chinal on dirt road from Macuspana to Tila, 26 km
NNW (by air) of center of Tila, Mpio. Tila, Chiapas, Mexico

June 12 17.51693°N, 92.50883°W [± 500 m], 117m elev.

Barcode MVZ 177815

SMR1799 Lampropeltis triangulum adult ♂ RNALater-L 6/12/12
-DOR

177816

SMR1800 Oxyrhopus petola adult ♂ ^{SVL} 323mm RNALater-L 6/12/12

San Francisco Jimbal, 5.8 km W (by air) of Alvaro Obregon, Mpio.
Tila, Chiapas, Mexico

June 13 17.44000°N, 92.60179°W [± 5 m], 1439m elev.

177817 SMR1801 Smilisca cyanosticta adult ♀ 22g RNALater-L 6/14/12
1802 " " adult ♂ 9.25g " "

June 14

SMR1803 Bolitoglossa ^{hartwegi} ~~rufescens~~ adult 0.9g RNALater-L, I 6/14/12
177818 1804 " " adult ♀ 1.5g " "
1805 " " adult 0.8g " "
-SMR1805 lost tail

San Francisco Jimbal, 5.9 km W (by air) of Alvaro Obregon, Mpio. Tila,
Chiapas, Mexico

June 14 17.43708°N, 92.60253°W [± 8 m], 1467m elev.

177819 SMR1806 Bolitoglossa hartwegi adult ♀ died in field RNALater-L, I 6/14/12
1807 " " adult ♀ 1.3g " "

177820

1808 Brachytriton silus " adult 3.1g RNALater-L 6/14/12

177821

1809 " " adult ♀ 3.0g " L "

1810 " " adult ♀ 3.4g " L, I "

1811 " " adult ♀ 2.5g " L, I "

Table

Table 1: Summary of the data	
Category	Value
Category 1	Value 1
Category 2	Value 2
Category 3	Value 3
Category 4	Value 4
Category 5	Value 5
Category 6	Value 6
Category 7	Value 7
Category 8	Value 8
Category 9	Value 9
Category 10	Value 10
Category 11	Value 11
Category 12	Value 12
Category 13	Value 13
Category 14	Value 14
Category 15	Value 15
Category 16	Value 16
Category 17	Value 17
Category 18	Value 18
Category 19	Value 19
Category 20	Value 20
Category 21	Value 21
Category 22	Value 22
Category 23	Value 23
Category 24	Value 24
Category 25	Value 25
Category 26	Value 26
Category 27	Value 27
Category 28	Value 28
Category 29	Value 29
Category 30	Value 30
Category 31	Value 31
Category 32	Value 32
Category 33	Value 33
Category 34	Value 34
Category 35	Value 35
Category 36	Value 36
Category 37	Value 37
Category 38	Value 38
Category 39	Value 39
Category 40	Value 40
Category 41	Value 41
Category 42	Value 42
Category 43	Value 43
Category 44	Value 44
Category 45	Value 45
Category 46	Value 46
Category 47	Value 47
Category 48	Value 48
Category 49	Value 49
Category 50	Value 50
Category 51	Value 51
Category 52	Value 52
Category 53	Value 53
Category 54	Value 54
Category 55	Value 55
Category 56	Value 56
Category 57	Value 57
Category 58	Value 58
Category 59	Value 59
Category 60	Value 60
Category 61	Value 61
Category 62	Value 62
Category 63	Value 63
Category 64	Value 64
Category 65	Value 65
Category 66	Value 66
Category 67	Value 67
Category 68	Value 68
Category 69	Value 69
Category 70	Value 70
Category 71	Value 71
Category 72	Value 72
Category 73	Value 73
Category 74	Value 74
Category 75	Value 75
Category 76	Value 76
Category 77	Value 77
Category 78	Value 78
Category 79	Value 79
Category 80	Value 80
Category 81	Value 81
Category 82	Value 82
Category 83	Value 83
Category 84	Value 84
Category 85	Value 85
Category 86	Value 86
Category 87	Value 87
Category 88	Value 88
Category 89	Value 89
Category 90	Value 90
Category 91	Value 91
Category 92	Value 92
Category 93	Value 93
Category 94	Value 94
Category 95	Value 95
Category 96	Value 96
Category 97	Value 97
Category 98	Value 98
Category 99	Value 99
Category 100	Value 100

Rovito, Sean
2012

Catalogue

San Francisco Jimbal, 5.9 km W (by air) of Alvaro Obregon, Mpio.
Tila, Chiapas, Mexico

June 14 17.43708°N, 92.60253°W [$\pm 8m$], 1467m

SMR 1812 Bradytriton silus adult ♀ 2.6g RNALater - L, I 6/14/12

Barcode MVZ 177822

1813 "

" adult ♂ 1.5g RNALater - L, I 6/14/12

177823

1814 "

" adult ♀ 2.5g " "

1815 "

" adult " "

177824

1816 Bolitoglossa hartwegi juv. RNALater - L 6/14/12

1.4 km SE (by air) of Venustiano Carranza on trail to San Francisco
Jimbal, Mpio. Tila, Chiapas, Mexico

June 15 17.44986°N, 92.60725°W [$\pm 8m$], 1106m elev.

177825 SMR 1817 Craugastor juv. ^{100%} EtOH - whole animal 6/15/12

(by rd)
ca. 200m S of summit of Cerro Mozotal, Mpio. Motozintla, Chiapas, Mexico

June 16 15.42507°N, 92.34113°W [$\pm 9m$], 2956m elev.

177826 SMR 1818 Pseudoeurycea cf rex adult ♀ RNALater - L 6/18/12

177827

1819 "

" subadult RNALater - L, I 6/18/12

177828

1820 Rhadinea lachrymans

^{362mm SVL} adult ♂ RNALater - L 6/18/12

177829

1821 Plectrohyla hartwegi

adult ♀ " "

177830

1822 Bolitoglossa franklini nigroflavescens adult " "

1.3 km (by road) NE of summit of Cerro Mozotal on road to Motozintla,
Mpio. Motozintla, Chiapas, Mexico

June 17 15.42935°N, 92.33876°W [$\pm 10m$], 2936m elev.

177927 SMR 1823 B. franklini nigroflavescens adult ♀ RNALater - L 6/18/12

10

10

Handwritten text in Arabic script, likely a religious or historical document. The text is written in a cursive style and spans multiple lines across the page.

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2012

Catalogue

Summit of Cerro Mozotal, Mpio. Motozintla, Chiapas, Mexico

June 18 15.42643°N, 92.34133°W [$\pm 4m$], 3071m elev.

Barcode MVZ	177928	SMR1824	<u>Bolitoglossa franklini nigroflavescens</u>	subadult	RNA Later-L	6/18/12
	177929	1825	"	stomach contents: beetle larvae, snail	subadult	"
	177930	1826	"	"	subadult	"

ca. 200m S of summit of Cerro Mozotal, Mpio. Motozintla, Chiapas, Mexico

June 18 15.42507°N, 92.34113°W [$\pm 7m$], 2956m elev.

177931	SMR1827	<u>Mesaspis moreletii</u>	adult ♂	RNA Later-L	6/18/12
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1.8 km NE (by rd) of summit of Cerro Mozotal, Mpio. Motozintla, Chiapas, Mexico on road to Motozintla

June 18 15.43220°N, 92.33469°W [$\pm 5m$], 2904m elev.

178008	SMR1828	<u>Bute bocourti</u>	adult ♂	RNA Later-L	6/19/12
178009	1829	"	adult ♀	"	"
	1830	"	adult	"	"
178010	1831	<u>Geophis</u>	adult ♀	259nm SVL	"

0.5 km WNW (by air) of summit of Cerro Mozotal, Mpio. Motozintla, Chiapas, Mexico

June 19 15.42787°N, 92.34554°W [$\pm 9m$], 2918m elev.

178011	SMR1832	<u>Pseudoeurycea f. rex</u>	adult	RNA Later-L	6/19/12
178012	1833	"	adult ♀	"	"
178013	1834	"	adult ♂	"	"
178014	1835	"	adult	"	"
178015	1836	"	adult	"	"
178016	1837	"	"	"	"
178017	1838	"	"	"	L, I
178018	1839	"	"	"	L, I

Rovito, Sean
2012

Catalogue

^{WNW}
0.5 km ~~W~~ (by air) of summit of Cerro Mozotal, Mpio. Motozintla, Chiapas, Mexico

June 19 15.42787°N, 92.34554°W [$\pm 9m$], 2918 m elev.

Barcode MVZ 178019 SMR1840 Pseudoeurycea cf rex juv. RNALater-L 6/19/12

ca. 200m S of summit of Cerro Mozotal, Mpio. Motozintla, Chiapas, Mexico

June 19 15.42507°N, 92.34113°W [$\pm 9m$], 2956 m elev.

178216 SMR1841 Bolitoglossa franklini nigreflavescens adult ♂ RNALater-L 6/20/12

June 20 1842 Mesaspis moreletii adult ♂ " "

178217 1843 " " adult ♀ " "

0.5 km WNW (by air) of summit of Cerro Mozotal, Mpio. Motozintla, Chiapas, Mexico

June 20 15.42787°N, 92.34554°W [$\pm 9m$], 2918 m elev.

ID based on sequence data 178218 SMR1844 Pseudoeurycea cf goebeli adult ♀ RNALater-L 6/20/12

178219 1845 Pseudoeurycea cf rex adult ♂ " "

Cerro Boqueron, 0.7 km WSW (by air) of Ejido Boqueron, Mpio. Motozintla, Chiapas, Mexico

June 22 15.23722°N, 92.30087°W [$\pm 11m$], 2212 m elev.

SMR1846 Thamnophis fulvus adult ♀ ^{419mm SVL} 38.5g RNALater-L 6/22/12

Cerro Boqueron, 0.8 km WSW (by air) of Ejido Boqueron, Mpio. Motozintla, Chiapas, Mexico

June 22 15.23730°N, 92.30174°W [$\pm 10m$], 2291 m elev.

SMR1847 Geophis nasalis ^{26g} ~~juv.~~ ^{155mm SVL} RNALater-L 6/22/12

1848 " " ~~juv.~~ ^{245mm SVL} adult ♂ " "

1849 Anolis crassulus adult ♂ " "

1850 " " adult ♂ 24g " "

Rovito, Sean

2012

Catalogue

Cerro Boqueron, 0.8 km SW (by air) of Ejido Boqueron, Mpio. Motozintla, Chiapas, Mexico

June 22

15.23722°N, 92.30174°W [$\pm 10m$], 2291 m elev.

MVZ Barcode

SMR1851	<u>Anolis</u> <u>crassulus</u>	adult ♂	2.8g	RNA Later - L	6/22/12
1852	"	adult ♂	1.4g	"	"
1853	"	adult ♀	2.7g	"	"
1854	"	adult ♀	2.4g	"	"
1855	"	adult ♀	2.7g	"	"
1856	"	adult ♀	2.3g	"	"

Cerro Boqueron, 1.1 km SW (by air) of Ejido Boqueron, Mpio. Motozintla, Chiapas, Mexico

June 22

15.23677°N, 92.30464°W [$\pm 10m$], 2393 m elev.

SMR1857	<u>Bolitoglossa</u> <u>franklini</u> <u>nigroflavescens</u>	adult ♀	RNA Later - L	6/22/12
1858	"	adult ♀	"	"
1859	"	juv.	"	L, I
1860	"	juv.	RNA Later - L, I	6/22/12
1861	"	juv.	"	"
1862	<u>Bolitoglossa</u> <u>flavimembris</u>	adult ♂	RNA Later - L	6/22/12
1863	"	adult ♂	"	"
1864	"	adult ♂	"	"
1865	"	juv.	RNA Later - L, I	6/22/12
1866	<u>Ceraphron</u> <u>godmani</u>	adult ♀ 29.25g juv. ♀ 34.1mm SVL	RNA Later - L	6/22/12
1867	<u>Rhadinea</u> <u>lachrymans</u>	adult ♂ 29.5g juv. ♂ 27.0mm SVL	RNA Later - L	6/22/12
1868	<u>Mesaspis</u> <u>moreletii</u>	juv.	0.9g	"
				L, I



Date		Description		Amount	
1/1/20		Balance b/d		100.00	
1/2/20		Bank of America		50.00	
1/3/20		Wells Fargo		25.00	
1/4/20		Chase		15.00	
1/5/20		Bank of America		30.00	
1/6/20		Wells Fargo		20.00	
1/7/20		Chase		10.00	
1/8/20		Bank of America		40.00	
1/9/20		Wells Fargo		15.00	
1/10/20		Chase		5.00	
1/11/20		Bank of America		35.00	
1/12/20		Wells Fargo		25.00	
1/13/20		Chase		10.00	
1/14/20		Bank of America		45.00	
1/15/20		Wells Fargo		20.00	
1/16/20		Chase		15.00	
1/17/20		Bank of America		30.00	
1/18/20		Wells Fargo		25.00	
1/19/20		Chase		10.00	
1/20/20		Bank of America		40.00	
1/21/20		Wells Fargo		15.00	
1/22/20		Chase		5.00	
1/23/20		Bank of America		35.00	
1/24/20		Wells Fargo		25.00	
1/25/20		Chase		10.00	
1/26/20		Bank of America		45.00	
1/27/20		Wells Fargo		20.00	
1/28/20		Chase		15.00	
1/29/20		Bank of America		30.00	
1/30/20		Wells Fargo		25.00	
1/31/20		Chase		10.00	
2/1/20		Bank of America		40.00	
2/2/20		Wells Fargo		15.00	
2/3/20		Chase		5.00	
2/4/20		Bank of America		35.00	
2/5/20		Wells Fargo		25.00	
2/6/20		Chase		10.00	
2/7/20		Bank of America		45.00	
2/8/20		Wells Fargo		20.00	
2/9/20		Chase		15.00	
2/10/20		Bank of America		30.00	
2/11/20		Wells Fargo		25.00	
2/12/20		Chase		10.00	
2/13/20		Bank of America		40.00	
2/14/20		Wells Fargo		15.00	
2/15/20		Chase		5.00	
2/16/20		Bank of America		35.00	
2/17/20		Wells Fargo		25.00	
2/18/20		Chase		10.00	
2/19/20		Bank of America		45.00	
2/20/20		Wells Fargo		20.00	
2/21/20		Chase		15.00	
2/22/20		Bank of America		30.00	
2/23/20		Wells Fargo		25.00	
2/24/20		Chase		10.00	
2/25/20		Bank of America		40.00	
2/26/20		Wells Fargo		15.00	
2/27/20		Chase		5.00	
2/28/20		Bank of America		35.00	
2/29/20		Wells Fargo		25.00	
2/30/20		Chase		10.00	
3/1/20		Bank of America		40.00	
3/2/20		Wells Fargo		15.00	
3/3/20		Chase		5.00	
3/4/20		Bank of America		35.00	
3/5/20		Wells Fargo		25.00	
3/6/20		Chase		10.00	
3/7/20		Bank of America		45.00	
3/8/20		Wells Fargo		20.00	
3/9/20		Chase		15.00	
3/10/20		Bank of America		30.00	
3/11/20		Wells Fargo		25.00	
3/12/20		Chase		10.00	
3/13/20		Bank of America		40.00	
3/14/20		Wells Fargo		15.00	
3/15/20		Chase		5.00	
3/16/20		Bank of America		35.00	
3/17/20		Wells Fargo		25.00	
3/18/20		Chase		10.00	
3/19/20		Bank of America		45.00	
3/20/20		Wells Fargo		20.00	
3/21/20		Chase		15.00	
3/22/20		Bank of America		30.00	
3/23/20		Wells Fargo		25.00	
3/24/20		Chase		10.00	
3/25/20		Bank of America		40.00	
3/26/20		Wells Fargo		15.00	
3/27/20		Chase		5.00	
3/28/20		Bank of America		35.00	
3/29/20		Wells Fargo		25.00	
3/30/20		Chase		10.00	
3/31/20		Bank of America		40.00	

Rovito, Sean
2012

Catalogue

Ejido Boqueron, 14 km W (by road) of Niquivil, Mpio. Motozintla,
Chiapas, Mexico

June 22 15.24208°N, 92.28985°W [$\pm 9m$], 2234m elev.

MVZ Barcode 178366 SMR1869 Bolitoglossa franklini nigroflavescens juv. RNALater-L, I 6/22/12

Cerro Boqueron, 0.7 km WSW (by air) of Ejido Boqueron, Mpio. Motozintla,
Chiapas, Mexico

June 22 SMR1870 Plectrohyla sagorum adult ♂ RNALater-L 6/24/12

178513 15.23722°N, 92.30087°W [$\pm 11m$], 2212m elev.

Cerro Boqueron, 1.1 km WSW (by air) of Ejido Boqueron, Mpio. Motozintla,
Chiapas, Mexico

June 23 15.23677°N, 92.30464°W [$\pm 10m$], 2393m elev.

178514 SMR1871 B. franklini nigroflavescens juv. RNALater-L, I 6/24/12

178515 1872 " " juv. RNALater-L 6/24/12

1873 Geophis nasalis adult ♀ " "

Summit of Cerro Boqueron, 1.3 km W (by air) of Ejido Boqueron,
Mpio. Motozintla, Chiapas, Mexico

June 23 15.23933°N, 92.30715°W [$\pm 9m$], 2530m elev.

178516 SMR1874 B. franklini nigroflavescens adult ♀ RNALater-L 6/24/12

1875 Geophis ~~nasalis~~ ^{10g} adult ♂ 258mm SL " "

Cerro Boqueron, 0.7 km WSW (by air) of Ejido Boqueron, Mpio. Motozintla,
Chiapas, Mexico

June 23 15.23722°N, 92.30087°W [$\pm 11m$], 2212m elev.

178518 SMR1876 Plectrohyla aria adult RNALater-L 6/24/12

10/10/19

Dear Mr. Smith,

I am writing to you regarding the matter we discussed previously.

I have reviewed the documents you provided and I am sorry to hear that the results are not what you were hoping for.

I will be happy to discuss this further with you at your convenience.

Please let me know when you are available for a meeting.

I am sorry for any inconvenience this may cause.

Thank you for your understanding.

I am sure we can find a solution that works for everyone.

I will be in touch with you again soon.

I am looking forward to hearing from you.

Yours faithfully,

Rovito, Sean
2012

Catalogue

Cerro Boqueron, 0.5 km W (by air) of Ejido Boqueron, Mpio. Motozintla,
Chiapas, Mexico

June 23 15.24013°N, 92.29901°W [$\pm 10m$], 2153m elev.

MVZ Barcode 178519 SMR1877 Craugastor lineatus adult RNALater-L

Cerro Boqueron, 1.1 km WSW (by air) of Ejido Boqueron, Mpio. Motozintla,
Chiapas, Mexico

June 23 15.23677°N, 92.30464°W [$\pm 10m$], 2393m elev.

178520 SMR1878 Bolitoglossa franklini nigroflavescens adult ♀ RNALater-L, I, H, T, K, R 6/25/12

178521 1879 " " adult ♀ " L, I, H, K, R, T, S "

178522 1880 " " juv. RNALater-L 6/25/12

178523 1881 " " juv. RNALater-L, I 6/25/12

178524 1882 " " adult ♂ RNALater-L, I, H, T, K, R, S

178525 1883 " " sub adult ♀ " "

178526 1884 Bolitoglossa f. nigroflavescens juv. RNALater-L, I, T 6/25/12

1885 Craugastor lineatus? adult RNALater-L 6/24/12

1886 " " juv. " "

Cerro Boqueron, 0.8 km WSW (by air) of Ejido Boqueron, Mpio. Motozintla,
Chiapas, Mexico

June 24 15.23722°N, 92.30174°W [$\pm 10m$], 2291m elev.

178527 SMR1887 Anolis crassulus adult ♂ 2.65g RNALater-L 6/25/12

1888 " " adult ♂ 2.1g " "

178528 1889 " " adult ♂ 2.05g " "

1890 " " adult ♂ 1.7g " "

Rovito, Sean
2012

Catalogue

Cerro Baqueron, 1.3 km SW (by air) of Ejido Baqueron, Mpio. Motozintla,
Chiapas, Mexico

June 24 15.23442°N, 92.30508°W [$\pm 6m$], 2301 m elev.

MVZ Barcode	SMR1891	<u>Bolitoglossa flavimembris</u>	adult ♀	RNA Later - L	6/25/12
178529	1892	<u>Mesaspis moreletii</u>	adult ♂ 13.5g	"	"
178530	1893	<u>Sceloporus smaragdinus</u>	♂ 5.0g	"	"
178531	1894	"	juv. ♀	"	"
	1895	"	♂ 4.0g	"	"
	1896	"	juv. ♀ 1.9g	"	"

Cerro Baqueron, 1.7 km SW (by air) of Ejido Baqueron, Mpio. Motozintla,
Chiapas, Mexico

June 24 15.23146°N, 92.30738°W [$\pm 10m$], 2381 m elev.

178532	SMR1897	<u>B. flavimembris</u>	adult	RNA Later - L	6/25/12
178533	1898	<u>B. franklini nigroflavescens</u>	juv. ♀ 43.5g	RNA Later - L, I	6/25/12
	1899	<u>Thamnophis fulvus</u>	adult 42mm SVL	RNA Later - L	6/25/12
	1900	<u>Cerrophidion godmani</u>	juv. ♀ 5.6g	RNA Later - L	6/25/12
178534	1901	"	juv. ♀ 18g	"	"

0.7 km S (by air) of Ejido Baqueron, Mpio. Motozintla, Chiapas, Mexico

June 24 15.23335°N, 92.29554°W [$\pm 7m$], 1979 m elev.

178641	SMR1902	<u>Duellmanohyla schmittorum</u>	juv.	RNA Later - L, I	6/25/12
	1903	"	juv.	"	"
178642	1904	<u>Plectrohyla matudai</u>	metamorph	"	"
178643	1905	<u>Ptychohyla euthysanota</u>	adult ♂	"	"
	1906	"	adult ♂	"	"

Rovito, Sean
2012

Catalogue

0.7 km S (by air) of Ejido Baqueron, Mpio. Motozintla, Chiapas, Mexico

June 24 15.23335°N, 92.29554°W [$\pm 7m$], 1979m elev.

MVZ Barcode 178644 SMR1907 Ptychocheilus euthysanota adult ♂ RNALater-L, I 6/25/12

1908 " " adult ♂ " "

178645 1909 " " adult ♂ " "

178646 1910 Anolis matudai adult ♂ 4.9g RNALater-L 6/25/12

1911 " " adult ♂ 4.1g " "

178647 1912 " " juv. ♂ 1.6g " "

178650 1913 Siton nebulatus adult ♂ 10.5g 350mm SVL RNALater-L 6/25/12

1914 Geophis nasalis adult ♂ 6.2g 281mm SVL " "

Intersection of road to Berriozabal with Niquivil-Baqueron road, 2.3 km E
(by rd) of Ejido Baqueron, Mpio. Motozintla, Chiapas, Mexico

June 25 15.24450°N, 92.27946°W [$\pm 17m$], 2288m elev.

SMR1915 Thamnophis fulvus adult ♀ DOR RNALater-L 6/25/12

El Arenal, 1.4 km E (by rd) of Ejido Baqueron on road to Niquivil,
Mpio. Motozintla, Chiapas, Mexico

June 25 15.24098°N, 92.28551°W [$\pm 9m$], 2299m elev.

SMR1916 Cerrophidion godmani adult ♀ 29mm SVL RNALater-L 6/25/12

0.9 km NE (by air) of Ejido Baqueron, Mpio. Motozintla, Chiapas, Mexico

June 25 15.24401°N, 92.28777°W [$\pm 5m$], 2221m elev.

178648 SMR1917 Bolitoglossa franklini nigrotlavesceus juv. RNALater-L, I 6/25/12

178649 1918 Craugastor lineatus juv. RNALater-L, I 6/25/12

1919 Anolis crassulus adult ♂ RNALater-L 6/25/12

Rovito, Sean
2012

Catalogue

Cerro Boqueron, 0.8 km WSW (by air) of Ejido Boqueron, Mpio. Motozintla,
Chiapas, Mexico

June 25 15.23868°N, 92.30235°W, 2507m elev.

SMR1920 Anolis crassulus subadult ♀ RNALater-L 6/26/12

Ejido Boqueron, 14 km W (by rd) of Niquivil, Mpio. Motozintla,
Chiapas, Mexico

June 25 15.23990°N, 92.29480°W [$\pm 7m$], 2147m elev.

MVZ Barcode 178722 SMR1921 Bufo bocourti adult RNALater-L 6/26/12

1922 " " adult " "

178756 1923 " " adult " "

Cerro Boqueron, 0.7 km WSW (by air) of Ejido Boqueron, Mpio.
Motozintla, Chiapas, Mexico

June 25 15.23722°N, 92.30087°W [$\pm 11m$], 2212m elev.

178723 SMR1924 Bolitoglossa franklini nigroflavescens juv. RNALater-L, I 6/26/12

178724 1925 Plectrohyla sagorum adult ♂ RNALater-L 6/26/12

1926 " " adult ♂ " "

1.9 km WNW (by air) of Ejido Boqueron, Mpio. Motozintla, Chiapas, Mexico

June 26 15.24880°N, 92.31023°W [$\pm 9m$], 2102m elev.

178725 SMR1927 Craugastor lineatus juv. RNALater-L, I 6/26/12

1928 " " juv. " "



The following is a list of the names of the persons who have been
admitted to the office of the Secretary of the State since the
last meeting of the Board of Education. The names are given in
alphabetical order of the last name. The names of the persons who
have been admitted to the office of the Secretary of the State since
the last meeting of the Board of Education are given in alphabetical
order of the last name. The names of the persons who have been
admitted to the office of the Secretary of the State since the last
meeting of the Board of Education are given in alphabetical order of
the last name. The names of the persons who have been admitted to
the office of the Secretary of the State since the last meeting of the
Board of Education are given in alphabetical order of the last name.

Rovito, Sean
2012

Catalogue

Cerro Bogueron, 1.4 km SW (by air) of Ejido Bogueron, Mpio. Motozintla,
Chiapas, Mexico

June 26 15.24029°N, 92.30346°W [$\pm 3m$], 2544m elev.

SMR1929 Chlorospingus ophthalmicus 18.25g adult male

heavy fat, no molt, skull 100% ossified, stomach contents: seeds; right testis 9x8mm

Tissues: RNA Later: H, M, L Barcode 178681 I: 178682 EtOH: H, M, L

1900

1900

1900

1900

1900

1900

1900

1900

1900

1900

1900

1900

1900

1900

1900

1900

Año: 2012

Preparador: Sean M. Kovito

SMR1929

Localidad: Cerro Bogueron

Lat:

Long:

Altitud:

Error:

TIPO DE ESPECIMEN

- ☒ Piel
☐ Esqueleto
☐ Fluido (formalina)
☐ Foto

Fecha de colecta: 6/26/2012

Datum:

Fecha de preparación: 26 June 2012

Colector:

☐ ♀ ☒ ♂ ☐ ? DesEspecie: *Chlorospingus ophthalmicus*

Peso: 18.45g

Grasa: heavy

Tejidos

- ☐ Sangre RNA

MVZ

- ☐ Frotis sanguíneo

- ☒ Mús, Cor, Híg EtOH MZFC

- ☐ Mús, Cor, Riñ RNA; t= 178681

MVZ

- ☐ Ojo, Cer, Pul RNA; t=

MVZ

- ☐ Gón, Híg, Baz RNA; t=

MVZ

- ☒ Intestino RNA; t= 178682

MVZ

Dedos y tarsos:

Light grey

Maxila: Dark grey

Mandibula:

Dark grey

Iris: Red-

brown

Muda alar:

Muda de la cola: none

Muda corporal: none

Osificación craneal: 100% ossified

Brood patch: absent

Pico Long/Anch/Alt (mm): 12/5/6

Estómago: seeds

LongTar Iz/Der (mm):

LongAla Iz/Der (mm):

Gónadas: right testis 9x8mm

Notas: Red 13-17 10:00 hrs

Dead in bag before prepared

#

Localidad:

Lat:

Long:

Altitud:

Error:

TIPO DE ESPECIMEN

- ☐ Piel
☐ Esqueleto
☐ Fluido (formalina)
☐ Foto

Fecha de colecta:

Datum:

Fecha de preparación:

Colector:

☐ ♀ ☐ ♂ ☐ ? Des

Especie:

Peso:

Grasa:

Tejidos

- ☐ Sangre RNA

MVZ

- ☐ Frotis sanguíneo

- ☐ Mús, Cor, Híg EtOH MZFC

- ☐ Mús, Cor, Riñ RNA; t=

MVZ

- ☐ Ojo, Cer, Pul RNA; t=

MVZ

- ☐ Gón, Híg, Baz RNA; t=

MVZ

- ☐ Intestino RNA; t=

MVZ

Dedos y tarsos:

Maxila:

Mandibula:

Iris:

Muda alar:

Muda de la cola:

Muda corporal:

Osificación craneal:

Brood patch:

Pico Long/Anch/Alt (mm):

Estómago:

LongTar Iz/Der (mm):

LongAla Iz/Der (mm):

Gónadas:

Notas:

#

Localidad:

Lat:

Long:

Altitud:

Error:

TIPO DE ESPECIMEN

- ☐ Piel
☐ Esqueleto
☐ Fluido (formalina)
☐ Foto

Fecha de colecta:

Datum:

Fecha de preparación:

Colector:

☐ ♀ ☐ ♂ ☐ ? Des

Especie:

Peso:

Grasa:

Tejidos

- ☐ Sangre RNA

MVZ

- ☐ Frotis sanguíneo

- ☐ Mús, Cor, Híg EtOH MZFC

- ☐ Mús, Cor, Riñ RNA; t=

MVZ

- ☐ Ojo, Cer, Pul RNA; t=

MVZ

- ☐ Gón, Híg, Baz RNA; t=

MVZ

- ☐ Intestino RNA; t=

MVZ

Dedos y tarsos:

Maxila:

Mandibula:

Iris:

Muda alar:

Muda de la cola:

Muda corporal:

Osificación craneal:

Brood patch:

Pico Long/Anch/Alt (mm):

Estómago:

LongTar Iz/Der (mm):

LongAla Iz/Der (mm):

Gónadas:

Notas:

Rovito, Sean
2012

Catalogue

- Valle de los Fantasmas, 0.8 km N (by rd) of MX Hwy 70, Sierra de Alvarez, Mpio. Villa de Zaragoza, San Luis Potosí, Mexico
- Oct. 6 22.07070°N, 100.61977°W [$\pm 8m$], 2308 m elev.
SMR1930 Geophis latifrontalis juv. RNA Later-L 10/7/12
- UNAM
- Cueva El Madroño, 0.9 km NE (by air) of entrance to Valle de los Fantasmas on MX Hwy 70, Mpio. Villa de Zaragoza, San Luis Potosí, Mexico
- Oct. 6 SMR1931 Geophis latifrontalis adult ♀ RNA Later-L 10/7/12
1932 " " adult ♂ " "
1933 Chirotetrion multidentatus juv. RNA Later-L, I 10/8/12
1934 " " juv. RNA Later-L, I, 10/7/12
22.07183°N, 100.61466°W [$\pm 10m$], 2297 m elev.
- 26.2 km E (by rd) of center of Ciudad del Maiz on MX Hwy 80 at turnoff to RMO San Luis Potosí, Mpio. Ciudad del Maiz, San Luis Potosí, Mexico
- Oct. 7 22.48550°N, 99.47340°W [$\pm 9m$], 1250 m elev.
SMR1935 Chirotetrion multidentatus adult RNA Later-L, I 10/8/12
1936 " " juv. " " 10/7/12
1937 " " adult " "
1938 Rana berlandieri juv. RNA Later-L 10/7/12
1939 " " juv. " "
1940 Inciilius nebulifer juv. RNA Later-L, I 10/7/12
1941 " " juv. " "
1942 Lepidophyma sylvaticum juv. RNA Later-L, I 10/7/12
- killed while collecting, fixed ~45 min later

Rovito, Sean
2012

Catalogue

Cueva El Pachón, Praxedis Guerrero, 8.4 km N (by rd) of Antigua Morelos at junction with MX Hwy 80 on MX Hwy 85, Mpio. Antigua Morelos, Tamaulipas, Mexico

Oct. 7 22.60762° N, 99.04945° W [± 10 m], 268 m elev.

SMR 1943 Craugastor quasti adult RNA Later - L 10/7/12
1944 Eleutherodactylus ^{dennisi} ~~smithi~~ adult " "

22.0 km E (by rd) of center of Tula on highway to Ocampo, Mpio. Tula, Tamaulipas, Mexico

Oct. 7 22.91846° N, 99.56523° W [± 10 m], 1317 m elev.

SMR 1945 Leptodeira septentrionalis juv. RNA Later - L 10/7/12
1946 Pseudoeurycea scandens adult ♀
1947 " " juv.

Oct. 8 1948 Chiropterotriton multidentatus adult RNA Later - L, I 10/8/12
1949 Eleutherodactylus juv. RNA Later - L, I 10/8/12
1950 Plestiodon brevicastris RNA Later - tail 10/8/12

11.4 km (by rd) from La Peña on road to Valle Hermoso, Mpio. Miquihuana, Tamaulipas, Mexico

Oct. 8 23.60062° N, 99.70824° W [± 5 m], 2612 m elev.

SMR 1951 Pseudoeurycea galeanae adult ♀ RNA Later -
1952 Sceloporus torquatus adult ♂ RNA Later - L 10/8/12
1953 " " adult ♀ " "
1954 " " juv. ♀ " "

Rovito, Sean
2012

Catalogue

14.2 Km (by rd) from La Peña on road to Valle Hermoso, Mpio.

Miquihuaná, Tamaulipas, Mexico

Oct. 8

23.62095°N, 99.70749°W [$\pm 4m$], 2836m elev.

SMR 1955 Pseudoeurycea galeanae adult ♀

1956 " " juv. RNALater - L, I 10/8/12

1957 " " juv. RNALater - whole animal 10/8/12

1958 Sceloporus torquatus adult ♂ RNALater - L 10/8/12

1959 " " juv. ♀ " "

1960 " " ~~juv.~~ adult ♂ " "

1961 " " juv. ♂ " "

22.6 Km N (by rd) of La Balsa on road to Zaragoza, Mpio. Zaragoza,
Nueva Leon, Mexico

Oct. 9

23.82390°N, 99.87582°W [$\pm 6m$], 2611m elev.

SMR
C. sp. nov. →
4/16/2014

SMR 1962 Chiropteratriton ^{cf} priscus adult RNALater - L 10/9/12

1963 " " adult ♂ " "

1964 " " adult ♂ " "

1965 " " adult RNALater - L, I 10/9/12

1966 " " adult " "

1967 " " ~~adult~~ ^{juv.} " "

1968 " " adult ♂ RNALater - L 10/9/12

1969 " " adult ♂ " "

1970 " " adult ♂ " "

1971 " " subadult RNALater - L, I 10/9/12

1972 " " subadult " "

1973 " " subadult " "

1974 " " adult RNALater - L 10/9/12

Rovito, Sean
2012

Catalogue

22.6 km N (by rd) of La Balsa on road to Zaragoza, Mpio.
Zaragoza, Nuevo Leon, Mexico

Oct. 9 23.82390° N, 99.87582° W [$\pm 6m$], 2611 m elev.

SMR 1975 Chiropteratrion ^{cf} priscus adult ♂ RNALater-L 10/9/12

1976 " " adult " "

1977 " " subadult RNALater-L, I 10/9/12

1978 " " adult RNALater-L 10/9/12

1979 " " subadult RNALater-L, I 10/9/12

1980 " " juv. RNALater-L, I 10/9/12

1981 " " juv. " "

1982 " " juv. " L, I, T "

1983 Thamnophis exsul adult ♀ RNALater-L 10/9/12

1989 C. priscus Subadult RNALater-L, I 10/9/12

4.4 km S (by rd) of La Encantada on road from La Balsa to
Zaragoza, Mpio. Zaragoza, Nuevo Leon, Mexico

Oct. 9 23.87887° N, 99.80836° W [$\pm 9m$], 2855 m elev.

SMR 1984 Sceloporus torquatus adult ♀ RNALater-L 10/9/12

1.8 km S (by rd) of La Encantada on road from La Balsa to
Zaragoza, Mpio. Zaragoza, Nuevo Leon, Mexico

Oct. 9 23.89343° N, 99.80301° W [$\pm 4m$], 2803 m elev.

SMR 1985 Chiropteratrion ^{cf} priscus adult RNALater-L 10/9/12

1986 " " adult " "

1987 " " adult " "

1988 " " adult " "

~~1989~~

✱

Rovito, Sean
2012

Catalogue

1.8 Km S (by rd) of La Encantada on road from La Balsa to
Zaragoza, Mpio. Zaragoza, Nuevo Leon, Mexico

Oct. 9

23.89343° N, 99.80301° W [± 4 m], 2803 m elev.

SMR 1990 Chirotetratriton^{cf} priscus adult RNALater-L, I 10/9/12

1991 " " adult " "

1992 " " juv. " "

1993 " " juv. RNALater-L, I, T 10/9/12

1994 " " juv. " "

1995 " " juv. RNALater-whole animal 10/9/12

1996 Pseudoeurycea galeanae juv. RNALater-whole animal 10/9/12

1997 Plestiodon brevirostris adult ♂ RNALater-L 10/9/12

2.4 Km N (by rd) of La Encantada on road to Zaragoza, Mpio.
Zaragoza, Nuevo Leon, Mexico

Oct. 9

23.91631° N, 99.80589° W [± 7 m], 2650 m elev.

SMR 1998 Chirotetratriton^{cf} priscus adult ♀ RNALater-10/9/12

Puerto Cieneguillas, 13.0 Km S (by rd) of Pablillo on NL Hwy 61,
Mpio. Galeana, Nuevo Leon, Mexico

Oct. 9

24.51835° N, 99.98282° W [± 4 m], 2526 m elev.

SMR 1999 Pseudoeurycea galeanae adult ♀ RNALater-L 10/9/12

2000 " " subadult RNALater-L 10/9/12

2001 Plestiodon brevirostris adult ♂ RNALater-L 10/9/12

2002 ~~1999~~ Sceloporus adult ♀ RNALater-L 10/9/12

Ravito, Sean
2012

Catalogue

Cerro Potosí, 30.2 km NW (by rd) of center of Galeana, Mpio.
Galeana, Nuevo León, Mexico

Oct. 10 24.88916°N, 100.21719°W [$\pm 7m$], 2904m elev.

SMR 2003 Chimantotriton priscus adult ♀ RNALater-L 10/10/12

2004 " " adult ♀ "

2005 " " adult ♀ "

2006 " " adult ♀ "

2007 " " adult ♀ "

2008 " " adult ♂ "

2009 " " adult ♀ "

2010 " " adult ♀ "

2011 " " adult ♂ "

2012 " " adult ♀ "

2013 " " adult "

2014 " " adult ♀ "

2015 " " adult ♀ RNALater-L, I, H, M, S, O 10/10/12

2016 " " adult ♂ RNALater-L 10/10/12

2017 " " adult ♀ "

2018 " " adult ♀ "

2019 " " adult ♀ "

2020 " " adult ♀ "

2021 " " Subadult "

2022 " " adult ♀ "

2023 Plestiodon brevirostris adult ♀ "

Rovito, Sean
2012

Catalogue

31.7 km SW (by rd) of Ejido Guayabas on road to Conrado
Castillo, Mpio. Hidalgo, Tamaulipas, Mexico

Oct. 11 24.00447°N, 99.45920°W [± 8 m], 14994 m elev.

SMR2024 Eleutherodactylus longipes juv. RNALater-L 10/12/12

33.8 km SW (by rd) of Ejido Guayabas on road to Conrado
Castillo, Mpio. Hidalgo, Tamaulipas, Mexico

Oct. 11 23.99590°N, 99.46320°W [± 9 m], 1627 m elev

SMR2025 Eleutherodactylus longipes adult RNALater-L 10/12/12

2026 " " adult " "

2027 " " adult " "

2028 " " adult " "

2029 " " adult " "

2030 " " adult " "

2031 " " adult ♀ " "

2032 " " adult " "

Cueva del Brinco, Conrado Castillo, ca. 43.5 km SW (by rd) of
Ejido Guayabas, Mpio. Hidalgo, Tamaulipas, Mexico

Oct. 11 23.95949°N, 99.47447°W [± 50 m], 1920 m elev.

SMR2033 Chiropterotriton adult ♀ RNALater-L 10/12/12

Conrado Castillo, ca. 43.5 km SW (by rd) of Ejido Guayabas, Mpio.
Tamaulipas, Mexico

Oct. 11 23.95859°N, 99.47359°W [± 9 m], 1916 m elev.

SMR2034 Pseudoeurycea galeanae adult ♀ RNALater-L 10/12/12

2035 " " juv. " "

Rovito, Sean
2012

Catalogue

Conrado Castillo, ca. 43.5 km SW (by rd) of Ejido Guayabas,
Mpio. Hidalgo, Tamaulipas, Mexico

Oct. 11 23.95859°N, 99.47359°W [$\pm 9m$], 1916 m elev.

SMR2036 Chiropteratrion sp. nov. juv. RNALater-L, I 10/12/12

2037 Plestiodon brevirostris adult RNALater-L 10/12/12

Finca Coradonga, 5.2 km N (by rd) of Chel, Mpio. Chajul, Depto. Quiché, Guatemala

Dec. 11 15.67059°N, 91.08179°W [$\pm 6m$], 955 m elev.

SMR2038 Bolitoglossa rufescens adult ♀ RNALater-T 12/12/12

2039 " " adult ♀ RNALater-L 12/12/12

2040 " " adult ♂ RNALater-L, I 12/12/12

2041 " " juv. RNALater-L, T 12/12/12

2042 Anolis adult ♂ RNALater-L 12/12/12

- SMR2038 died in afternoon after losing tail; SMR2041 died on evening of 12/11 ^{fixed in morning 12/12}

16.3 km N (by rd) of highway from San Idelfonso Ixtahuacan to Cuilco,
past San Francisco El Retiro, Montañas de Cuilco, Mpio. Cuilco,
Depto. Huehuetenango, Guatemala

Dec. 12 15.47566°N, 91.94360°W [$\pm 5m$], 3016 m elev.

SMR2043 Dendrotriton sp. nov. adult RNALater-L, I 12/13/12

2044 " " juv. RNALater-L, I 12/12/12

2045 " " juv. " "

2046 " " juv. " "

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Rovito, Sean
2012

Catalogue

Villa Alicia, 13.2 km NW (by rd) of center of Todos Santos Cuchumatán
on road to Jacaltenango, Mpio. Todos Santos Cuchumatán, Depto. Huehuetenango, Guatemala

Dec. 13 15.56498°N, 91.63768°W [± 18 m], 2267m elev.

SMR 2047 Plectrohyla

RNALater-L 12/13/12

2048 "

"

"

"

15.56412°N, 91.63664°W [± 18 m], 2453m elev.

SMR 2049 Bolitoglossa cuchumatana juv.

RNALater-L, I, T 12/3/12

Eastern peak of Volcán Tecuamburro, 10.9 km SW (by rd) of
highway from Cuilapa to Chiquimulilla, Mpio. Pueblo Nuevo Vías, Depto.
Santa Rosa, Guatemala

Dec. 14 14.15606°N, 90.40825°W [± 3 m], 1769m elev.

SMR 2050 Bolitoglossa

adult

RNALater-L, I 12/14/12

2051 "

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adult

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2052 "

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adult

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2053 "

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adult

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2054 "

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adult

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"

2055 Ptychohyla enthysanota

adult

RNALater-L 12/14/12

(by air)

1.6 km SW of center of Moyutá, Volcán Moyutá, Mpio. Moyutá,
Depto. Jutiapa, Guatemala

Dec. 15 14.02795°N, 90.09319°W [± 9 m], 1588m elev.

SMR 2056 Trachycephalus venulosus

adult

^{ETOH}
RNALater-L 12/15/12

Page: 1

Date: / /

1. The first part of the document is a general introduction to the project. It describes the purpose of the study and the objectives that will be achieved. The introduction also provides a brief overview of the methodology used in the research.

2. The second part of the document is a detailed description of the methodology used in the study. This section includes information about the data collection methods, the sample size, and the statistical analysis techniques used to analyze the data.

3. The third part of the document is a discussion of the results of the study. This section presents the findings of the research and discusses their implications for the field of study. The discussion also includes a comparison of the results with those of previous studies.

4. The fourth part of the document is a conclusion that summarizes the main findings of the study and provides recommendations for future research. The conclusion also includes a statement about the limitations of the study and the need for further investigation.

5. The fifth part of the document is a list of references that includes all the sources used in the study. This section provides a comprehensive list of the literature that has been consulted in the research.

6. The sixth part of the document is an appendix that contains additional information that is not included in the main body of the text. This section may include raw data, detailed statistical results, or other supplementary material.

7. The seventh part of the document is a glossary that defines the key terms and concepts used in the study. This section provides a clear and concise definition of the terminology used throughout the document.

8. The eighth part of the document is a list of figures and tables that are included in the study. This section provides a brief description of each figure and table and indicates where they can be found in the document.

9. The ninth part of the document is a list of acknowledgments that recognizes the individuals and organizations that have provided support and assistance during the course of the study. This section provides a place to express gratitude to those who have helped make the research possible.

Sean M. Rovito

2012

Journal

Guatemala: Huehuetenango, Jutiapa,
Quezaltenango, San Marcos, Santa
Rosa, Suchitepequez

Mexico: Chiapas, Coahuila, Hidalgo,
Jalisco, Nuevo Leon, Queretaro,
San Luis Potosi, Tamaulipas

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Kanto, Sean
2012

Journal

Nevado de Colima, Jalisco, Mexico

June 5

Arrived in Mexico, DF at 06:30^{on 6/14} and spent the day at UNAM getting things ready. Left with Jorge Sanchez, Mirna, Mariana and Rafael for Nevado de Colima. Spent night in Hotel Acuario (cheap, nice) in Ocotlán and drove to Ciudad Guzman this morning. Bought food + drove to same site ("Cerro de los Puercos") where we camped in November. Started searching at 15:30, but the site is even drier than last time - seems like no rain for a while. We looked in some damp leaf litter below roadbanks and Mariana found an Eleutherodactylus ninesulcatae. I got a Plestiodon (saw several more) and a small colubrid, and Mirna got a Geophis. I hiked down into the canyon where we focused our efforts last fall, but it was very dry. I don't think we'll find anything, if it doesn't rain, which it is supposed to tomorrow night.

Cerro Pingüica, Pinal de Amoles, Reserva de la Biosfera Sierra Gorda, Querétaro, Mexico

June 7

Yesterday, we went to Ciudad Guzman and looked at the weather forecast. It said it would rain later in the week when last I checked, but now said no rain all week. We decided to leave since there was no hope of finding salamanders, but first we went to look for more ~~potential~~ sites for future visits. We took the road from Ciudad Guzman to El Grullo and arrived in a relatively high area of pine forest that looked much like where we had searched before, except that the forest is in much better condition than at Cerro de los Puercos. We took a small road that evidently goes up the

Rovito, Sean
2012

Journal

Cerro Pingüica, Finca de Amoles, Reserva de la Biosfera Sierra Gorda, Querétaro,
Mexico (cont)

June 7

... Nevada, and turned around at a point where the forest looked nice but was dry (19.63755°N , $103.61837^{\circ}\text{W}$ [$\pm 10\text{m}$], 2457m elev.). We drove back to Huadalupe and then on to Chapuato, where we spent the night with Jorge's friend. Woke up today, and visited Guanajuato briefly, then went to San Luis de la Paz. Intended to visit an oak forest near Kichú where *P. cephalica* have been found, but the forests near Guanajuato were completely dry, so we decided to skip Kichú and went to Finca de Amoles in Santa Caterina and Peñamiller. Just after entering Querétaro, a storm hit with very heavy ~~rain~~ rain and hail - caused creeks to swell very rapidly along road. Got to Finca de Amoles + found it had barely rained, so we drove to the top of Cerro Pingüica hoping it would be wetter there. It hadn't rained much more from what we could see, but it was somewhat misty. It was totally dry under rocks, so we waited until 21:00 to start searching, and stopped at 22:30. I found 9 *Pseudoeurycea* cf. *cephalica* (clearly a new species based on phylogenetic data we have) along ~10m of roadcut, exactly where Sean Schville and I found salamanders in 2010. Let one small one go + collected the rest, along with 1 *Murina* got. We also got 4 *P. bellii* (one very large), a *Crotalus*, a *Ptychocheilus*, + a *Sceloporus*. A lot of good roadcut in this area seems unoccupied by salamanders, which all seem to occur along the bank at the 4 way road junction. The *P. cephalica* like species has more brown dorsal coloration and a more speckled venter than I remember from elsewhere. We camped along the road back to the main highway.

1. The first step in the process of the scientific method is to make an observation or ask a question.

2. The second step is to do background research to learn what is already known about the topic.

3. The third step is to form a hypothesis, which is a statement that can be tested.

4. The fourth step is to design an experiment to test the hypothesis.

5. The fifth step is to conduct the experiment and collect data.

6. The sixth step is to analyze the data and draw a conclusion.

7. The seventh step is to communicate the results of the experiment.

8. The eighth step is to repeat the experiment to verify the results.

9. The ninth step is to use the results to make a prediction.

10. The tenth step is to use the prediction to make a hypothesis.

11. The eleventh step is to use the hypothesis to make a prediction.

12. The twelfth step is to use the prediction to make a hypothesis.

13. The thirteenth step is to use the hypothesis to make a prediction.

14. The fourteenth step is to use the prediction to make a hypothesis.

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16. The sixteenth step is to use the prediction to make a hypothesis.

17. The seventeenth step is to use the hypothesis to make a prediction.

18. The eighteenth step is to use the prediction to make a hypothesis.

19. The nineteenth step is to use the hypothesis to make a prediction.

Color description in life

SMR 1782 - *Pseudoeurycea* sp. - Cerro Pinguica

Head - very dark brown background. From snout to neck between eyes (on top of head) mottled with tiny greenish-brown specks and a few grey flecks. Sides of head with light grey flecks.

Dorsum - Very dark grey background with an indistinct band of reddish-brown specks and a few grey specks.

Tail - Very dark grey background with a band of reddish brown along midline that becomes more distinct posteriorly; Last $\frac{1}{3}$ of tail completely reddish brown. Lichen-like light grey spots all along tail.

Sides of tail w/ same background color + same lichen-like grey spots.

Sides of body w/ same background color, mottled w/ light grey + a few pinkish-brown specks.

Gular region light grey-brown w/ light grey flecks, especially near mental area. Much more light-grey speckling immediately posterior to gular fold. Background color of venter medium grey-brown with some grey speckling. Tail w/ same background color w/ larger lichen-like grey spots.

Arms + legs same as dorsum, w/ more grey speckling on hands + feet.

Underside of limbs same as venter but w/ more grey speckling.

Each finger ~~light~~ beige underneath w/ reddish toe tips.

Konto, Sean
2012

Journal

Finca Magnolia Miramar, Volcán Lacandón, Depto. Quetzaltenango, Guatemala
Jan. 11 I arrived in Guatemala City the morning of Jan 10 w/ Carla Cicero, Olga Sanchez, and Elyse Freitas. Met up w/ Ted Papenfuss (arrived day before), Carlos Nájquez, + Sergio Pérez. Spent time packing at museum; I was sick + didn't help much. Stefanie Ordóñez joined us and we left town, picking up José Alejandro Nicolle Paul on the way. Took us forever to leave the city + encountered a major traffic jam, got to our destination, a large coffee finca below the forest on Volcán Lacandón, around 10:30. Nice setup - 3 bedrooms + lots of space to work. This morning, took forever to get organized. Three guides went w/ us to the forest. Drove ~10 min uphill + parked in cafetal, then walked ~25 min through cafetal and planted pine forest. Everyone but me + other students (plus our guide) took another trail and we waited ~30 min for them to rejoin us. Bird + mammal teams decided the forest was too far and decided to go to a closer forest on another finca. Carlos, Ted, and I left them and walked uphill, quickly entering some secondary forest and then some decent (although disturbed) primary broadleaf forest w/ lots of lianas. Tree diversity of trees seemed low, or at least many trees looked very similar. Forest was fairly open, and leaf litter was quite dry. Started looking at 11:40 and stopped at 16:00. I looked in a number of logs but found nothing; even in logs it wasn't too wet. We found 6 Crangas of two species (C. ^{lingulatus} ~~lingulatus~~ + C. ^{rufipennis} ~~rufipennis~~), 5 were out + 1 was under a piece of wood. We also got 2 Anolis + I saw a third that escaped into a tree. We opened 30-40 small to medium-sized bromeliads + got 5 Bolitoglossa engelhardti, two of which were in the same bromeliad. Bromeliads had some water in them but seemed good; was surprised to not see more

Krato, Sean
2012

Journal

Finca Magdalena Miramar, Volcán Lacandón, Depto. Quetzaltenango, Guatemala (cont.)

Jan. 11 ... more salamanders. Around 1900m, just above where we found the first *B. engelhardti*, we started to see bamboo, and by 2000m it was the dominant plant in many parts of the forest. The upper part of the forest was more disturbed, but the last area where we worked had tons of bromeliads and looked more like the cloud forest that I'm used to. We walked down, and it became very foggy/misty on the way down. Rained during dinner, so Carlos + I drove down road from 20:00-21:00 looking for good roadbanks to search for salamanders, but didn't find any; all land along road is cafetal + all roadbanks are dirt rather than rock.

Granosa Costa Cuca and Finca Magdalena Miramar, Depto. Quetzaltenango, Guatemala

Jan. 12 Spent morning taking photos + prepping specimens while we waited for someone to bring back a truck. Left around 11:00 in search of red bananas. Drove down to highway + saw hardly any; continued to CA-2 and took turnoff to Granosa Costa Cuca. Drove out of town to an area called La Vol ^{de} Santiago, 0.5 km from center of Granosa. Stopped at a large patch of land w/ coffee, fruit trees and some banana plants and spent ~45 min - 1 hr searching in bananas (primarily red banana plants but also some green ones. Area looked good for herps - lots of shade trees + quite a bit of leaf litter. Ted quickly got a *Bohloglossa salweeni* in a red banana, the first I've seen. Looks almost exactly like *B. flaviventris* to me except w/o yellow venter. Carlos got a big one w/ a huge purplish dorsal + 12 spots, and I got a *Dendras stauferi* in a green banana plant (both Carlos + I saw + lost 1 more

andis miramar

Rovito, Sean
2012

Journal

Finca Costa Rica and Finca Magdalena Miramar, Depto. Quetzaltenango, Guatemala (cont.)
Jan. 12 ... in banana plants, under leaves). We drove back to Finca Magdalena Miramar + were going to stop to open more banana plants but the only red bananas were in very populated areas w/ tons of people, or on plots of land whose owners were elsewhere. We finally stopped in a cafetal 13.5 km (by rd) from the finca and searched for 25-30 min in green bananas, which had nothing. We got 4 Anolis and 4 Craugastor ~~out~~ ^{so} out amongst leaf litter in the coffee bushes. Drove back to our finca, took photos, + prepped specimens. The bird team was totally swamped so I prepared 2 birds for them.

Las Tubas, Chimal, Depto. Quetzaltenango and San Marcos, Depto. San Marcos, Guatemala
Jan. 13 We waited until after breakfast for a vehicle, then drove to Las Tubas on the Colombia-San Juan Ostuncalco highway, where we have collected B. franklini + B. sp. "Chimal" before. The plan for today is to collect B. franklini + B. lincolni for a next gen sequencing project I want to do. Conditions in the disturbed secondary forest where we found salamanders before (14.80441°N , 91.66312°W [$\pm 8\text{m}$], 2322m elev.) were extremely dry. We opened 28 bromeliads, which had a little water but not too much and seemed perfect, but found nothing. We moved to a spot 2.8 km down the road toward Colombia (14.78965°N , 91.67367°W [$\pm 7\text{m}$], 2130m elev.) and opened 9 very big bromeliads in very bad secondary forest and on the edge of cow pasture but found nothing. We then drove on to San Marcos, stopped at the Hotel Villa Astor (old Hotel Pérez) to get rooms, then drove to the San Marcos municipal

Rovito, Sean
2012

Journal

Las Nubes, Chichabal, Depto. Quetzaltenango and San Marcos, Depto. San Marcos, Guatemala
Jan. 13 ... forest above the village of El Rincon. We parked at a place where the road got bad and started looking in bromeliads around 16:30. The habitat was pine and ^{cypress} forest w/ some broadleaf trees and seemed to be all secondary forest. We searched in this area in 2005 and found lots of B. lineatus and B. morio. In the first bromeliad I opened, we found a juvenile Albromia aurita; looks just like a Mesaspis. Walked uphill to the rest of the road and got a spectacular view of Volcán Tajumulco and the valley below. A man we met said the road (which was very steep and blocked by fallen trees) goes to a town called Barrancas de Sahagún, on the south slope of Tajumulco. As we went down, the forest was in much better shape, with some really big oak and pine trees. We got 3 Dendrobates bromeliads in 2 big bromeliads and opened maybe 10 more. Stopped at 18:10, waited until 18:35 and walked back slowly w/ lights, searching along the mossy roadbank until about 19:10. Although recent rain or mist had made the moss damp, it was really dry otherwise and we got nothing. Drove to the "south transect" near Boquerón and searched on roadbanks for 5 min, but it was completely dry and we gave up. It had been fairly warm in the morning but became cold and windy at night w/ no clouds. We returned to San Marcos to spend the night.

Finca Navillas, Volcán Lacandón, Depto. Quetzaltenango, Guatemala
Jan. 14 Left San Marcos at 08:40. Took a dirt road to Coatepeque that was allegedly the fastest way to the coastal highway. It was pretty rough, took ~2 hours and didn't pass through any natural habitat.

Roots, Sean

2012

Journal

June 14

Finca Varillas, Volcán Lacandón, Depto. Justzattenango, Guatemala (cont.)

... We made it back to Finca Magnolia Miramar around 12:40 + ate lunch. Wanted to go to Finca Varillas, where the bird + mammal teams were, but had to wait until 14:00 for a guide (Juan Carlos), who had worked with the ornithologists all morning, to take us. We arrived at the edge of the forest at 14:50 and started opening bromeliads. As on our other hike uphill, lower forest was quite disturbed, but got better as we went up. Found 5 B. engelhardti in bromeliads on the way up, as well as an Anolis Craugastor lineatus. After cutting a trail through a very steep uphill slope, we arrived near the high point of our other hike on the same trail as before, and continued uphill. Forest here has very big trees w/ lots of bromeliads higher up, but only small + medium ones reachable. We made it to 2180m elev. before it was too dark to see; got 2 more B. engelhardti as well as 3 C. rupinus. Opened ~~all~~ a total of 57 bromeliads on the hike. Started down at 18:10; Carlos found a C. lineatus and, while we stopped to take a GPS point, saw a C. stuarti coming out of a crack or hole in a log. We made it down by 19:30 and headed back to prep specimens. Day had been not too warm and foggy in the afternoon, but cleared up just before dark. Forest floor seemed wetter than before, but still very dry.

Jan. 17

South slope of Volcán Atitlán, Depto. Suchitepéquez - Solá, Guatemala

We packed up on Jan 15 and left Finca Magnolia Miramar. Drove to Patulul, Suchitepéquez and spent the night; Carlos drove Carla back to Guatemala City to get her flight tomorrow. Yesterday, we were joined

Rovito, Sean
2012

Journal

5 Slope of Volcán Atitlán, Depto. Suchtepeque - Solola (cont.)

Jan. 17 ... by Jorge Bruni Lopez, Juan Fernando Hernandez, Maria Fernanda Asturias, Julio Mendez, and Rodolfo Lina. We drove ~20 min from Patulul to Finca San Jeronimo Miramar, an enormous finca that produces Parma brand cheese, which is ubiquitous here. Owned by Italians, managed by Juan José Chinchilla, who knows Juan Fernando. We got 2 really nice guest houses, plus a room above the beneficio de cafe, where Carlos + I are staying. The finca has a big industrial part along the highway, that is like a small city - lots of housing, central park, church, etc. Met the Italian owners who told us about presence of oncocercosis on finca - a little worrisome. Helped the bird team put up nets on the edge of the forest in the late afternoon. From the highway, road goes first through coffee, then cattle pasture, more coffee, and finally arrives at forest; goes into forest for perhaps nearly 1 km, but we are not allowed to drive past edge. This morning, we waited until 10:40 for the mammal team to get back - they had a flat tire + had to put in pitfall traps. We picked up our guide, Todor Cipriano Lopez, on the way up + parked at the edge of the forest at 11:00. Walked to the end of the road + waited ~20 min for Ted to catch up. Then proceeded up path through somewhat disturbed forest w/ big broadleaf trees, heliconia, + thick understory, to "El Mojon", a point around 1950m on the border w/ Finca Jarrabes + Parque Nacional Volcán Atitlán (I believe). At this point, bromeliads suddenly appear, some of them huge. Todor took off his shoes + climbed ¹⁵10 m up to get us some huge bromeliads. Opened 21 bromeliads and got 9 *D. engelhardti*, of which we released 4 juvs. Continued up path, opened 24 more bromeliads (again, many from

Kovito, Sean
2012

Journal

S slope of Volcán Atlixan, Depto. Suchitepéquez - Solotá (cont.)

Jan. 17

high up in same tree that Fedoro climbed) and got 9 B. engelhardti; released 3 juvs. Continued up path; around 2200m, the trees began to get shorter and bromeliads became scarce. The trail was extremely steep and seemed to follow a ridge. We got 2 more B. engelhardti out of 3 bromeliads, including a huge adult that I found in an isolated bromeliad. We spent almost no time looking under logs, as the forest was completely dry and there wasn't any moisture under or even inside most logs. The forest continued to get scrubrier and shorter; Fedoro told us that this area had burned ~10 years ago. Around 2500m, we began to see some pine trees. I opened a medium-sized bromeliad and got a small black Bolitoglossa that I don't think is B. engelhardti (although it could be); fat seen less webbed and coloration is totally different. We opened 10 more bromeliads here and got 2 more subadult Bolitoglossa, at least one of which looks like B. engelhardti. Carlos + Fedoro saw 2 horned guans while I was opening bromeliads. We continued up to 2675m elev., where we opened ~4 more bromeliads, but the habitat seemed very disturbed, although Fedoro said we were getting toward the upper edge of the forest, so it may have been like this naturally. More pine trees + bamboo here. Turned back at 17:25 + saw a male horned guan at same place where they had seen a pair. Vocalization sounds like clucks followed by a vomiting sound. Caught up w/ Fed, who had turned back at 2500m, and walked to the bottom, arriving at 19:30. Saw a Potos flavus and several Bassariscus on the way down. The day was hot, perhaps around 35°C, clear in the morning + evening but cloudy in the afternoon.

Copy

1847

My dear friend,
I have just received your letter of the 11th inst. and am
glad to hear that you are well. I am
also well and hope this letter will find you
the same. I have been thinking of you
very much lately and wondering how
you are getting on. I have been
very busy lately but I have managed
to find some time to write to you.
I have been thinking of you very
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to find some time to write to you.

Kanto, Sean
2012

Journal

Finca San Jerónimo Miramar, S slope of Volcán Atitlán, Depto. Suchitepéquez,
Guatemala

Jan. 18 Not another fairly late start, since we have to wait for the mammalogists to return w/ a truck before we can leave. Plan for the day was to seek out red bananas to get additional species of salamanders. First, Tedoro took us to "Caban", an area where the finca workers grow bananas and pacaya. It had a small stream running through a canyon w/ lots of pacaya and green bananas. Only saw about 4 red bananas, 2 of which had B. engelhardti in them, I got 2 Grangaster loki on the ground + saw a few more; searched for ~30 min. Tedoro then took us to 2 other spots lower down w/ green bananas; neither was good. I got another C. loki at the second + Carlos saw a big Grangaster that jumped into the stream. Left Tedoro, drove to Patulul looking for red banana plants (saw none), + took turnoff to Pochuta. Stopped in a cafetal 7.9K from Pochuta and searched for ~45 min in mostly green bananas. Carlos got a Silvery nublatus in one of the few red bananas and we got 4 C. loki; I saw 2 Lophomorphus that escaped. We drove back, pressed specimens, + had dinner. Ted was tired and went to bed; Carlos and I drove back to our first collecting spot of the day and started searching at 20:50. We saw hundreds of C. loki (mostly smallish) - collected 10 bigger ones. Also got a C. stuarti along stream. Walked slowly up small stream and got 6 Plectrohyla matusdei from vegetation above or near stream + saw 1 more. Also found 8 Anolis (no male adults, collected 7) sleeping on vegetation. Carlos found 2 Bothriechis bicolor on leaves, 1 near stream + 1 away, plus an Amantodes ^{away from} the stream. Stopped searching at 22:50. Day had been cool + cloudy (low 30s) and night was clear and slightly cool, maybe 23°C.

Konto, Sean
2012

Journal

Cerro Balamjuyu, Dept. Chimaltenango and Finca San Jerónimo Miramar,
Dept. Suchitepéquez, Guatemala

Jan. 19

We decided to try to sample bromeliads at higher elevations today along a road to Patzún from Pochuta. Carlos thought he had been down this road and that there were many bromeliads along it, but it turned out not to be the same road, and the forest along it had been cleared at elevations high enough for bromeliads. When we got up to a larger, paved road, we took a small dirt road to the municipal forest on Cerro Balamjuyu. This was where Carlos had worked, but the road was narrow and bad so we decided not to risk going down too far. The forest along the road had been partially cleared to plant peas; the remaining forest was fairly big oaks w/ lots of moss, bamboo and a very thick understory. There were many bromeliads, but nearly all were 15+ m off the ground; we only found 1 to open. Got a Mesaspis moreletii + 3 Anolis in a grassy field + took a different road down the NE side of the mountain, through Patzún, and passed Panajachel to return to the finca. After dinner, Ted, ~~not there~~ Carlos + I went back to the stream 0.5 km N (by rd) of the entrance to the finca and searched from 20:55-22:30. Found Gerrhonotus loki + rupinus; Carlos got an enormous one of the latter. Also got 2 Ptychocheilus euthysanota on top of large leaves in a canyon w/ springs and dripping water emerging from conglomerate rock walls. Saw lots of Rana maculata (took 8), as well as 2 male Anolis dollfusianus and a Leptodeira septentrionalis. It had looked like it would rain in the afternoon, but never did; the daytime temps was in the low 30s°C and it was ~25°C at night.

Kanto, Sean
2012

Journal

Comunidad Agrícola La Concha and Finca San Jerónimo Miramar, Depto.
Suchitepéquez, Guatemala

Jan. 20

Took photos in the morning, then drove nearly to Patulul and then across the Madre Vieja River to San Juan Bautista and north to Comunidad Agrícola La Concha, a small town surrounded by shade-grown coffee. We drove just out of town and searched from 14:00 - 15:30 in a cafetal. There were lots of red bananas but all I got in them was an Anolis dollfusianus and a Reithrodontomys gracilis. Carlos + I each got an Ameiva and a male Anolis serrana. I got 2 Sphenomorphus assatus in leaf litter, and Carlos got a Graugaster rufinus and 2 Lepidophyma flavimaculatum under rotten logs. Although B. occidentalis is reported from Volcán Atitlán in literature, I'm beginning to suspect that it doesn't live here; I opened enough red bananas that I should have found one, unless it is very rare here at the edge of its range. Drove back, prepped specimens + ate dinner. Ted was tired again but Carlos + I went back to the same stream as last night + searched from 20:55 - 21:45. We focused mostly on the upstream canyon area. Saw lots of C. loki + C. rufinus, and Phana maculata. Collected 4 more Ptychocheilus euthysanota and saw ~5 more; Carlos also got our first Amphisca bandini of the trip. In an area of the canyon not very high, steep walls, Carlos spotted a small margay, which we chased along the stream. It ran slowly and we got within ~2-3m of it, which was very surprising. Was also surprised to see it in an area dominated by intensive agriculture. Again, looked like it would rain all day, but only got misty higher up where bird nets were. Nighttime temp was ~22-25°C. We prepped specimens until late.

4/1

200

Handwritten text in a cursive script, likely a letter or journal entry. The text is written on lined paper and is mostly illegible due to blurriness. It appears to be a personal communication, possibly discussing a journey or a specific event. The handwriting is fluid and characteristic of the 18th or 19th century.

Kaito, Sean
2012

Journal

Parque Nacional los Mórmos, Hidalgo, Mexico

June 8

We drove towards San Juan del Rio and then took a smaller road across the border with Hidalgo to Jimapan and then on to Parque Nacional los Mórmos. I wanted to see if we could get more Chiropterostictus masaveri + C. magnipes and work out permission for a future Bd study. We arrived in Durango around 16:00 and were welcomed by Juan Alvarado, the presidente municipal who received me last time (045-75-9596-6310). After talking for a bit while one of the first rains of the year fell (~5 min rain), we walked up to the cave where I had found both species last time. The forest was completely dry, as was the entrance to the cave. After passing through a cloud of flies at the entrance, we found 4 C. magnipes out in dry areas of the cave. Mariana dropped a rock on one while trying to remove it from a crack, injuring its pelvis, so we collected it. Went back some ways into the cave to areas where it was wetter, but saw nothing more besides a giant semi-shug. I'm not sure if it's too dry for C. masaveri or if they only hang out near the entrance after dusk, but we saw none. We proceeded to La Encarnación, made dinner, and went out to look for salamanders after dark, but it was completely dry so we gave up and prepared specimens instead. The day was warm and sunny, with a brief afternoon storm, and the night was cool and clear. We camped in La Encarnación.

Harto, Sean
2012

Journal

San Francisco Jimbal, Mpio. Tila, Chiapas, Mexico

June 14³

On June 11, Jorge and I got all the herp equipment ready. Met up w/ Erick ~~Hernandez~~ ^{Garcia} Trigo, Claudia Gutierrez, Arrellano, and Daniel Mendez Aranda from Adolfo Navarro's lab in the Facultad de Ciencias, UNAM. They will be with us to collect birds. Drove to airport + picked up Zach Hanna, Dan Wait, + Lina Bouzid and drove to Fortín de las Flores to spend night. Around 01:30, my room was invaded by soldiers w/ large automatic weapons who forced us to stand against the wall while they searched the room - rather scary + clearly illegal. Woke up, bought supplies + tried to make it to field site; took too long on road and only made it to Tila to spend the night. Got an Oxyrhopus petola and a DOR Lampropeltis triangulum on dirt road b/w Melchor Ocampo + El Chimal, before arriving at Salto del Agua - Tila highway. Woke up today + drove to Alvaro Obregón, talked to Anastasio Lopez who gave us permission to work at site. Drove on to end of road at Nenustiano Carranza and spent ~1.5 hr packing down equipment to bare essentials. Hired 4 people to carry 4 bags + water ~~up~~ uphill for almost 2 hours to the small settlement of San Francisco Jimbal, composed of 6 families. Talked briefly w/ some men, who agreed to let us work + stay in a small meeting room. Rained torrentially w/ hail for ~45 min around 17:00. After dinner, Jorge, Lina, + I searched for ~45 min - 1 hr along paths near the village but saw nothing. Found 2 Amphispiza cyanoptera in manmade wells or large holes filled w/ water. Was surprised not to see any Craugastor (or something else, for that matter). Night was fairly cool and clear.

July

1891

My dear mother, I have just received your letter of the 25th and am so glad to hear from you. I am well and hope this finds you the same. I have been thinking of you very much lately and wondering how you are getting on. I hope you are happy and content. I have been very busy lately with my work, but I always find time to think of my loved ones. I hope to hear from you again soon. I am your affectionate son, John. I have been thinking of you very much lately and wondering how you are getting on. I hope you are happy and content. I have been very busy lately with my work, but I always find time to think of my loved ones. I hope to hear from you again soon. I am your affectionate son, John.

Rovito, Sean

2012

Journal

June 14

San Francisco Yubal, Mpio. Tila, Chiapas, Mexico

Jorge, Anna, and I set out at 09:30 and searched in several patches of red bananas in the village. I found 3 Bolitoglossa that look like B. rufescens but could also potentially be B. hartwegi, given that they have white mottling under the tail and the feet look slightly different from B. rufescens; on the other hand, I've never found B. hartwegi in bananas before. We took a trail to the out of the village and quickly got into nice, if somewhat disturbed, primary forest. The area is very rocky (karstic) with tons of holes/small caves, and the broadleaf trees growing here are not huge, perhaps because of this. There is a rather thick understory as well - habitat looks almost exactly like we saw in May 2011 in Bethel, Alta Verapaz, Guatemala. I got what I think is a B. hartwegi (darker coloration, larger size) under a small log immediately after we started searching at 09:50. Shortly after, Anna found a Brachytriton in some leaf litter between rocks along the trail along with what might be a salamander egg (collected). I then got 1 Brachytriton + 1 B. hartwegi in area where wood had been cut, in wood chips and between two pieces of bark, respectively. I then focused on leaf litter and found 6 more Brachytriton in areas of thicker leaf litter on slopes along the trail. Everything was very wet b/c of yesterday's rain. These salamanders have some brown speckling on the dorsum that I don't remember from B. silus but otherwise look just like it on cursory examination, although I haven't seen B. silus in a while. Hard to imagine it here unless it is also distributed along the Sierra Norte de Chiapas between here and Guatemala. I guess it could be a different species as well. Heard tons of howler monkeys

Main body of handwritten text, appearing to be a list or series of entries, possibly numbered or dated. The text is very faint and mostly illegible.

Handwritten text on the right margin, possibly a date or reference.

Color description in life

SMR 1808 - *Brachytriton* sp. (silus?)

Head dark ~~brown~~^{grey} w/ small grey flecks. Just anterior to paratoid region. Dorsum has a medium brown wide band down middle w/ specks of lighter brown and grey. Surface of tail reddish brown w/ numerous tan + few grey flecks. Sides of body dark grey mottled w/ specks of light grey. Sides of tail - dark grey background. Upper half reddish of brown + same as dorsal surface of tail. Lower half same as sides of body but w/ more extensive mottling of grey w/ a little brown. Venter dark grey, ~~mottled~~ w/ light grey specks along outer $\frac{2}{3}$. Indistinct band of light grey composed of small specks runs from insertion of forelimbs to venter. Ventral surface of tail same background color w/ more extensive grey mottling, especially around vent. Anal region dark grey background w/ many light grey specks. Upper surface of limbs same background color as dorsum, some brown near insertion w/ body. Feet have tiny grey specks. Underside of limbs same as venter - d. grey bg. w/ lots of l. grey specks. Underside of feet dark grey-brown.

dark ~~brown~~^{grey}
background color w/

My dear Mr. [Name]

I have just received your letter of the 12th inst.

concerning the [Topic] and am glad to hear of it.

I have been thinking of you very much lately.

and hope you are well and happy.

I am sure you are and hope you will continue to be so.

I am very truly yours,

[Signature]

[Name]

[Address]

[City]

[State]

[Country]

[Post Office]

[Zip Code]

[Phone Number]

[Fax Number]

[E-mail Address]

[Web Address]

[Social Media]

[Other Information]

[Closing Remarks]

[Final Sign-off]

[Enclosures]

[References]

[Footnote]

[Bibliography]

[Index]

[Appendix]

Pratto, Sean
2012

Journal

San Francisco Jimbal, Mpio. Tila, Chiapas, Mexico (cont.)

June 14

... in the forest. Although I saw a few tiny bromeliads, this looks more like ~~the~~ premontane or even lowland forest rather than cloud forest. I stopped searching at 13:30 to eat lunch, photograph, and prep specimens. After dinner, went back out along same trail and searched from ~~14:40~~²¹ 14:40 - 23:30. It had rained hard from ~ 15:30 - 17:00 or so and conditions seemed ideal, but I saw only one small Bolitoglossa on a leaf. I don't understand why we're not seeing any Craugastor here. When we got back, we were told that people from Alvaro Obregon were mad that we had been given permission to work by the comisariados w/o talking to the town assembly first, and that they had complained to the people in San Francisco Jimbal. The latter group scheduled a meeting with us tomorrow at 05:00 to discuss it & not good.

San Francisco Jimbal, Mpio. Tila, Chiapas, Mexico

June 15

We stayed up until 03:00 prepping bird specimens + packing in case they decide to kick us out. Slept w/o sleeping bag for 1-2 hours; it was very cold. At 05:00, waited for villagers to come. Meeting convened at 06:30, was conducted in Chol, and resulted in us being kicked out. A few people spoke in our favor, including one small boy (Rogelio) who taught me a few words of Chol (frog = m'uch, salamander = a'ket) and told them that we had released some birds. We were the first foreigners to ever visit the site, and they didn't understand what we were doing. We packed up the nets and set off for Nenustiano Carranza. I got a tiny frog (Eleutherodactylus leprus?) around 1100 m elev. on the way down. The forest changes to something more like

Rovito, Sean
2012

Journal

San Francisco Jimbal, Mpio. Tila, Chiapas, Mexico (cont.)

June 15

... lowland rainforest, with more palms and fewer epiphytes. After we got down, one car drove out while Erick, Daniel, & I went to Alvaro Obregón to talk to the comisariado. He was out of town, so we got the agente municipal to call a town meeting. Again, only two people spoke in our favor, and the community asked us never to return. This is sad, since I'm sure there is a lot more to be found in this forest. We drove on to Comitán to spend the night at Hospedaje Montebello (cheap, charming). It rained all afternoon, but we arrived too late to go out and look for anything.

Cerro Mojotal, Mpio. Motozintla, Chiapas, Mexico

June 16-17

Yesterday, we drove from Comitán to the top of Cerro Mojotal, stopping to drop off permits in Motozintla. Camped at the microwave towers after agreeing to pay the guard 100 pesos per day. Lima, Jorge, & I searched from ~22:00-22:30 along a road cut near camp but found nothing. Today, let everyone sleep in since people were still tired. Started searching in logs around 10:45 near camp in disturbed areas of forest w/ cattle. I got a Rhadinia lockingtoni under a log. Jorge got two Pseudoeurycea inside different logs. They are brown with some yellow on the tail and with a pale gular region; they look like P. goeltii rather than P. rex but probably correspond to a new species (one of two here?) according to my phylogeny. It was cloudy in the morning and started to rain around noon, becoming progressively colder and more rainy until we stopped searching at 13:40. Ate lunch, took photos, and waited out rain. At 16:40, we walked ~200m to a spot where I got a Bolitoglossa franklini nigroflavescens under a rock along the road and a Plectrohyla hartwegi under a small pile of branches. It seems like P. hartwegi.

Rovito, Sean
2012

Journal

Cerro Majatal, Mpio. Motozintla, Chiapas, Mexico (cont.)

June 17

... looks different every time I see it, in color pattern as well as in some way I can't quite put my finger on. Seems like it might contain several different species. We walked down through a forest of very large pine trees w/ big bromeliads and somewhat of an understory, searching in really good logs but finding nothing. This forest looks either primary or at least really old; best habitat I've seen here so far. Arrived at an area of mixed pine + oak before turning back at 18:45. It had stopped raining around 15:30 and was clear by about 17:00, offering 360° views including a view of the Pacific. We searched along the roadcut after dinner from 21:45-23:30. Much of the roadcut wasn't good for salamanders (no rocks or holes, or just a dirt slope) but I got a large, brightly colored B. f. nigroflavescens in one of the few good areas about 0.5 km from camp. Some of the roadcut had already dried out from the afternoon rain. The night was clear and cool.

June 18

Took photos in morning. Walked down road ~200m, then downhill into the nice pine forest where we had been yesterday. Opened up 30 bromeliads from 10:30-12:20 but found nothing; decided they had too much water for salamanders, so we shouldn't destroy more. Ate lunch, then started searching near camp in + under logs. ^{at 14:00} Got 2 small B. franklini nigroflavescens under logs and a third under a fallen, decaying bromeliad. It had rained from 12:00-13:00 but was raining only lightly by this time. We continued downhill and met up with the road as it started to rain harder. Walked down to a small road that goes off to the W and searched along it until 16:30 w/o finding anything. Walked a little further, then turned back for camp. Found a Mesaspis moreletii under a rock 200-300m from camp.

Rovito, Sean
2012

Journal

Cerro Moxotal, Mpio. Motozintla, Chiapas, Mexico (cont.)

June 18

... Prepped specimens under difficult conditions (raining, dark, on ground), then ate dinner. At 22:15, walked back down to small road where we had searched this afternoon and started searching (mostly on roadcut) at 22:40. Found no salamanders, but Jorge found a pair of Bufo bocourti on the road in amplexus, and Lima got another B. bocourti and a Aeophis under a fallen branch, both along the road. Searched on the way back to camp, arriving at 00:30. It was cold and clear while we searched, but still very wet from the afternoon rain.

June 19

It rained last night and in the morning, so we slept in late. ~~Left~~ Left camp at 11:00 and headed downhill from where Jorge had found the Pseudoeurycea. I went downhill for ~5 min down a steep slope to an area with fewer trees and some grazing cattle. Found a Pseudoeurycea deep inside a rotten log. Has a spotted gular region and is quite dark; looks mostly like the one Jorge got. Went a little more downhill and got into an area of broadleaf (mostly oak) trees with a little pine and fir. There were many very rotten logs and I found 7 more Pseudoeurycea inside logs and 1 juvenile under wood chips next to a rotten log. Several of them were more reddish in color and looked somewhat like P. fox I've seen in San Marcos; all of these had a spotted gular region. One of them from inside a log was darker dorsally w/ a darker venter (including underside of tail) and an unmottled venter; looks very much like the P. garbei we got in ~~San Marcos~~ ^{Chicabul} Guatemala in 2006. The area w/ all the logs was even more humid than other areas, was very mossy, and looked different from the pine forest above. Lima and Jorge searched until 13:30; I searched until 14:00. It rained lightly but steadily.

Barrio, Sean
2012

Journal

Cerro Mazatal, Mpio. Motozintla, Chiapas, Mexico (cont.)

June 19

... the entire time we searched, and it was misty and rather cold (maybe 17°C). We took photos and prepped specimens in the afternoon while it continued to rain. At 20:30, took the truck down to the highway to search in the area where I'd found salamanders in 2006, but I couldn't find it in the mist. Looked a little on the highway, then along 2 side roads on the way back to camp, including the one where we found the toads last night. Truck couldn't climb the final stretch up to the camp, so we parked and walked. I found a *Bolitoglossa* f. nigroflavescens on the way up, ~200m from our camp. Got back at 11:00, having searched for ~1hr total. The night was cold w/ intermittent rain.

June 20

Woke up this morning to a cold rain - took everyone a while to get going. Zach was wet + tired after a night in his hammock + suggested we leave; I think everyone is of the same opinion. Jorge, Lima, + I searched from 11:00-12:40 in the area where I found the *Pseudoeurycea* yesterday; Jorge + I each got one and Lima found a trail but not the animal. The one I got was darker w/ no gular spots and looks like *P. gaebeli* to me, while the other looks more like *P. rex*. We searched along the road and I got 2 *Mesaspis macleoti* under a board + a piece of metal in a small field. Prepped specimens, then packed up and drove to Motozintla. Arrived late; weather had cleared up just as we were leaving.

Handwritten text in a cursive script, likely a letter or a journal entry. The text is written on lined paper and is mostly illegible due to the quality of the scan. It appears to be a continuous paragraph of writing.

Color in life - SMR1818 *P. ^{sp} goebeli* 6/18/12

Head uniform dark golden brown on top. Dorsum w/ golden brown band along midline, bordered by darker brown. Dorsal surface of tail golden brown, lighter than dorsum, with some darker brown specks. Iris greenish-gold. Sides of head light brown to angle of jaw, then darker brown behind w/ golden brown specks. Sides of body dark brown w/ many golden specks on lower half. Sides of tail medium brown. Gular region cream colored w/ pinkish hue. Venter pale brown along midline, darker brown towards sides. Ventral surface of tail light yellowish brown. Upper surface of limbs similar to dorsum, toe tips reddish. Underside of limbs pale brown, toe tips reddish.

Color in life - SMR1832 *P. goebeli*? 6/19/12

Very dark brown head, w/ a few golden spots on rostrum and a gold spot just behind line above gular fold. Dorsum very dark brown w/ faint, indistinct band of ~~medium~~ ^{medium} golden-brown along midline. Tail same as dorsum.

Upper surface of limbs same as dorsum. Sides of body very dark brown w/ tiny white speck in a line. Gular region light grey w/ a few white specks around outer margin. A few white specks just posterior to gular fold. Venter dark grey, immaculate. Tail dark grey-brown w/ a few tiny specks of lighter brown. Underside of limbs same dark grey as venter. Underside of feet light grey; tail tips pinkish.

Color in life - SMR 1833 *Pseudodycea* sp. 6/19/12

Head medium brown w/ a few white specks; parotid region orange-brown. Dorsum has medium brown background w/ a wide orange-brown band down midline; band has some dark brown flecks w/ in it. Band continues onto tail, covers dorsal side of tail; dark brown spot w/ in band more numerous + larger than on dorsum. Sides of head light brown w/ cream mottling below line of jaw. Iris golden. Sides of body w/ dark brown background color. Indistinct line of silvery-cream flecks down lateral midline. Sides of tail medium brown w/ a few cream specks. Gular region has light grey background mottled w/ broken-like cream blotches; a couple of blotches just posterior to gular fold. Venter medium grey, immaculate. Ventral surface of tail light brown w/ a few cream specks. Upper surface of limbs medium brown w/ orange speckles, lower surface of limbs grey-brown w/ cream specks. Underside of feet light grey; toe tips reddish.

Ranto, Sean
2012

Journal

Boqueron, Mpio. Motozintla, Chiapas, Mexico

June 22

Yesterday, went shopping for food in morning while Erick + Jorge got our flat tire + broken brake camper repaired. Left Motozintla ~~about~~ around 14:00 and drove to Tiquiril. Tried to drive the rented 4x4 truck into Boqueron, but the road was very muddy and was under repair, and we got to a point < 1 km in where we had to turn back. 3 local guys helped drive/push us out + uphill; took ~ 1 hr. Found a guy on the Guatemalan side of Tiquiril who drove us to Boqueron for MX400 per trip; road was really bad. Saw a female resplendent quetzal + an owl on the way in. Set up in the community meeting hall - a big improvement over our camp on Cerro Maptal. This morning, Jorge, Lina, + I set out at 09:40 w/ a guide (Julian Perez) + 2 small children. We walked up the trail to Cerro Boqueron and found a Thamnophis fulvus out near a stream w/ a little waterfall just outside of town. Collected 8 Ambystoma (and saw many more) along the bank next to the trail in disturbed habitat. The side of Cerro Boqueron facing town is almost entirely deforested. Our guide found 2 Eleutheris next to the trail, and we saw a green Sceloporus. We went uphill until the edge of the forest, then down a short distance to a small stream. There were many rotten logs and our guide immediately found a big Bolitoglossa franklini ^{under} ~~negroflavescens~~ on one. We went on to get 1 more under a log, 1 inside a log, and 2 under bark. These look almost like B. melanota to me; adults seem entirely black, while juveniles have a few yellowish spots along sides. They look more like B. franklini from Cerro Maptal than those I've seen in San Marcos, Guatemala, but the spots are less orange than on Cerro Maptal. The

Rinto, Sean
2012

Journal

Boqueron, Mpio. Motozintla, Chiapas, Mexico (cont.)

June 22

... guide found a Bolitoglossa flavimembra under a log, and I found 3 more under the bark of logs. These appear to all be males, and are dramatically less stocky + robust than the only other one I've seen, a female from San Marcos. The cloud forest in this area is in really nice shape, a mix of pine + broadleaf trees w/ tree ferns and a thick understory. Lots of really nice bromeliads, but they were full of water so we stopped after opening 5. There were a lot of cut pine logs + boards laying around, which is where the salamanders came from. One of the kids found a Craugastor godmani that I collected, and we got a Rhadinaea under a log. We spent most of our time searching in the areas w/ lots of cut wood, and stopped searching at 14:00. It had been sunny + clear in the morning, but was cloudy + misty by the time we turned back. It rained in the afternoon while we prepped specimens. Went back out after dinner once the rain had mostly stopped + searched along the road out of town starting at 20:50. I found a B.f. nigroflavescens on a tree trunk ~1m off the ground in disturbed habitat and heard what I think was a Hydrophyla calling. Jorge found 2 B.f. nigroflavescens in a hole in a ~~concrete~~ cement wall; we went back for frogs but couldn't get them out. These salamanders seem to thrive in disturbed habitat. We walked back on the trail to Cerr. Boqueron + stopped at 2 small streams. Heard frogs at both, and I got a Heterophyla (sagorum?) at the second one, where we had found the Thamnophis in the morning. Got back at 00:00 and prepped specimens until 02:00. The night was misty, cloudy, + cool.

Rovito, Sean

2012

Journal

Cerro Boqueron, Mpio. Motozintla, Chiapas, Mexico

June 23

Woke up at 9:00 and waited until 11:00 for our guide to show up. Walked up Cerro Boqueron to forest and took a different route from yesterday, starting at the point where we started finding salamanders yesterday. Searched for ~1.5 hr along a stream and on a hillside before emerging in the area where all the cut wood is. Jorge found a Haplois under a log. Once we arrived in the area w/ all the cut wood, I found 2 B. f. nigroflavescens under the bark of a large pine log. It had been cloudy + misty in the morning and started to rain as we walked uphill, searching in logs. It was pouring by the time we got to the summit, where I found a huge B. f. nigroflavescens under a rotten log + a Haplois leucogaster inside a rotten log. The forest on the way up was mostly pine, but there were mostly broadleaf trees on the summit; some disturbance from logging + cattle grazing. Lots of big branches that would be great in the dry season. Started to walk down + search, arriving back at the town at 17:00; it rained hard until ~16:45. We wrote notes, got ready to prep, and made dinner. Went back out to look at 21:50, first along the road then starting on trail to Cerro Boqueron around 22:00. I found a Grangaster along the trail near town, it had stopped raining by this time. We walked fairly quickly up to the forest and searched along + near a stream at the point where we found the salamanders yesterday. I quickly got 4 Bolitoglossa (all or all but 1 juv. are franklini nigroflavescens) on leaves 1-2m off the ground, and 2 Grangaster. Searched for a long time along the stream for Plectrohyla sagorum that were calling, but couldn't find any; did get 2 Grangaster along path near stream. I also got one

Rovito, Sean
2012

Journal

Cerro Boqueron, Mpio. Motozintla, Chiapas, Mexico (cont.)

June 23

Bolitoglossa franklini nigroflavescens in a tree hole cavity, ~ 2.5m off the ground. Dima got 2 B. f. nigroflavescens on leaves. We searched here from 23:15-01:00, then headed back down. At the stream where I got the Thamnophis, I saw something jump across the path. Turned out to be a Plectrohyla aria - the first one I've ever seen. The cascade + rock wall above the path along the stream seem like a good place for Plectrohyla - might have come from there. Went to sleep around 02:00.

June 24

Went out w/ our usual guide's son (Isaac) on trail up Cerro Boqueron at 10:45. It was sunny, warm + clear and reptiles were out. We got 4 male Anolis crassulus on the way up, plus many females we let go. Got 4 bright green Dactylopsax in woodpiles at the clearing where the forest begins, plus a big M. morio. One of the kids found a Bolitoglossa flavimembra along the path. We continued down a path towards El Narajo, the next village downhill. Forest was only broadleaf and looked very disturbed; wood had been cut + understory looked secondary in many places. Found a Thamnophis along path, then walked up hill and back to where we had started along a wide trail/cleared area that I think marks the limit of Boqueron. Got 2 Cerophryne out basking, and a B. flavimembra in a log. Forest up here looked a little better and has some pine trees. Found a B. franklini nigroflavescens that Dima said was partially poking its head out from a hole under a rock along the path. Stopped searching around 16:00 and walked back to village. Got ready to prep specimens, did a few, made dinner, and left again at 22:30.

Rovito, Sean
2012

Journal

Boqueron, Mpio. Motozintla, Chiapas, Mexico (cont.)

June 24

... It had become cloudy in the afternoon but the night was clear; it had also rained briefly before dinner, so vegetation was wet. We walked out of town on a path downhill to El Naranjo, and went to a stream just below 2000m elev. I searched in a cattle pasture and got 3 Ptychocheilus euthysanota on tall, bushy weeds; heard tons calling. Got a Geophis nasalis + a Sison on the ground in the pasture. Heard a frog that made a call of a single hollow chick-like note - couldn't find it, don't know what it might be. Lima + Jorge had found 2 more male P. euthysanota. I walked along the path and got a metamorph P. matudai, 2 Anellamandylus schmidtorum, and 3 Anolis matudai, all on leaves. Stopped searching at 09:40 (having started at 22:40) and walked up to Boqueron.

June 25

Spent morning photographing + pressing specimens. We were told there would be a political meeting (local PRI candidate) at 15:00, so we had to clean up + move everything, which took hours. Started raining shortly after Lima, Jorge, + I left at 15:00, just as people were arriving. Walked uphill through El Arenal + found a DOR (machete?) Thamnophis at the intersection of the road to Boqueron. Continued on this road but nowhere to search along road so we turned back. Lima found a Cerradophilus on the road in El Arenal. Went down another road/path out of Boqueron to the N; I got a B. f. ingolfweileri in a log, an A. crassus, + a Craugastor. Meeting ended, so we went back and had dinner and got ready to prep. After dinner, found 3 Bufo borealis on the soccer field. Went to

Rantz, Sean
2012

Journal

Boqueron, Mpio. Motozintla, Chiapas, Mexico (cont.)

June 25

... drove above town on trail to Cerro Boqueron where I had found a Eleutherodactylus sagorum and searched for ~45 min, plus 15 min on the way. Jorge + I each got a E. sagorum; I heard many calling + saw lots of tadpoles in the stream. Went back and prepped all our animals - took until 03:00. Night was clear and fairly cool.

June 26

Tried to sample a lower elevation area today. Our guide took us on a road N out of Boqueron, then we walked through corn fields along the N side of Cerro Boqueron. Finally, arrived at some forest around 2100m elev. and searched from 12:30-13:30. Forest was in pretty good shape; broadleaf trees with a thick understory, above a stream. Jorge got 2 Craugastor while Lima, the guide, and I found nothing. I felt a little sick and searching seemed unproductive so we decided to go back; it rained lightly on the way back. Prepped our remaining specimens in afternoon in front of an audience of most of the town, who were very interested in everything we did. They were more curious + less repulsed by the specimen preparation than anywhere else I've been; it made it a little hard to prep but the reaction was a welcome change from some of our other experiences. Lima + I felt somewhat sick and we wanted to pack tonight to get an early start, so we decided not to go out to search tonight.

July

1881

Dear Mother
I have just received your letter of the 11th and was
glad to hear from you. I am well and hope
this finds you the same. I have been thinking
much of late of the old times and how
soon it will be years since we last
saw each other. I have been very busy
lately but I will write you again soon.
I have been thinking of you very much
and hope you are all well. I have
been very busy lately but I will
write you again soon. I have been
thinking of you very much and hope
you are all well. I have been very
busy lately but I will write you
again soon. I have been thinking
of you very much and hope you
are all well. I have been very
busy lately but I will write you
again soon.

Kovits, Sean
2012

Journal

Oct. 6

Nalle de los Fantasma, Sierra de Alvarez, San Luis Potosí, Mexico
Arrived in DF very early Friday morning; spent day dealing w/ export of birds from the June Chapas trip. Left at 09:30 w/ Rafael and Mariana and drove to Nalle de los Fantasma, SLP, arriving around 16:30 (tons of traffic leaving DF). We walked to Cueva el Molino, where I had found Chiropterotriton multidentatus on my last trip here in 2010. We searched in the cave but found nothing; I went quite a bit deeper than last time. Searched around the entrance to the cave + nearby in leaf litter; got 2 C. multidentatus and 2 Haplois, plus another Haplois near the car. The leaf litter was fairly wet + conditions seemed decent for salamanders, but found no P. cephalica, which was the primary goal. We also looked under rocks but these were drier than deep leaf litter. Drove to Ciudad del Maiz to spend the night, arriving around 22:30.

Oct. 7

Ciudad del Maiz, S.L.P., Cueva El Pachon and Acahuales, Tamaulipas, Mexico

Woke up at 07:00 + left Ciudad del Maiz around 08:30. Drove ~5 Km E on Hwy 80 to an oak forest; parked at a small chapel + searched for ~15 min, but it was quite dry. This should be near the Pseudoeurycea locality here, and was the first place to stop w/ decent oak forest. No bromeliads and few logs, so hard to search. Continued E to the road up to the microwave towers where we stopped in 2010. Searched from ~09:15 - 11:00, mostly in bromeliads but also in logs.

Knito, Sean
2012

Journal

Ciudad del Maiz, S.L.P., Cuera El Pachón and Acapulco,
Tamaulipas, Mexico (cont.)

Oct. 7

... We got 3 Chirotrochilus multidentatus, all in bromeliads. I caught 2 small Rana, in a puddle on the road near a cattle pond which had perhaps 100 m²; also got 2 tiny Desmognathus reuteri toadlets. Rafael caught a Lepidophyma but accidentally killed it; we fixed it upon returning to the truck. In general, the habitat was fairly moist and seemed OK for salamanders, but bromeliads seemed especially good (some but not too much water). We drove E to Antigua Morelos and then ~8 km N to Brasas de Guerrero. Stopped + asked for Cuera El Pachón, where Tom Devitt had asked me to look for Eleutherodactylus ^{donnisi} ~~donnisi~~. A man showed us the way to the cave, ~300 m east of town in tropical dry forest. The opening was rather large and the cave itself was spacious w/ a high ceiling. I quickly found a big Craugastor augusti in a small hole ~ 1 m off the ground + ~ 1 m inside the cave. We continued in for perhaps 100 m, but the only frog we saw farther inside was a big Lepidophyma. Hard to imagine why it would be so far back, but also saw another in a side passage. Somewhere, this cave has an endemic species of fish, but I saw no standing water. Lots of bats flying all around. On the way out, Rafael found 2 E. donnisi ~~donnisi~~ about 1 m up in a small recess. They both jumped away when I tried to catch them but I managed to get one after some frantic searching. The cave was fairly warm inside and didn't seem like a great place for B. platydactylus, the only salamander

Rails, Sean
2012

Journal

Ciudad del Maiz, S.L.P., Cueva El Pachón and Acahuales, Tamaulipas, Mexico (cont.)

Oct. 7 ... that should be here. Drove to Ciudad Maiz for food, then on to Ocampo. Wanted to visit a cave 22 km N of Ocampo at Caserío El Paraíso, but the road is apparently terrible + impossible w/o 4WD. Even with 4WD, we were told it was very hard and could only find 1 guy who would take us; he wanted 1400 pesos, which was too much for me to pay. We drove on toward Tula and stopped in a picnic area with a shrine to La Virgen Milagrosa, part of Ejido Acahuales, 22 km from the center of Tula. The habitat was oak forest w/ fairly big oaks w/ Spanish moss + quite a few bromeliads. The understory was a nearly impenetrable mix of vines, herbaceous plants, poison oak, thorny shrubs, and "mala mujer", with articulating hairs on it. I got stung by the mala mujer on my left arm, which promptly swelled to 150% its normal size. Rafa + Mariana both found a Pseudoeurycea scandens, one under a fallen bromeliad + one in a small bromeliad. I got a small Leptodeira under a rock in the picnic area. Saw a big flock of green parrots take off down the road; lots of bird life in general. We drove to Tula to spend the night in the Hotel Rossana, which was decent.

Acahuales and Miquihuana area, Tamaulipas, Mexico

Oct. 8 Drove back to Acahuales this morning + searched on other side of road from 10:00-11:40. Looked under lots of logs but found nothing. I got a tiny Eleutherodactylus out on a rock. Opened about 25

Kaito, Sean
2012

Journal

Oct. 8

Acahualtes and Miquihuana area, Tamaulipas, Mexico (cont.)

... Bromeliads and got a Chiropterobatrax (looks like multidentatus) in the last one, ca. 2m off the ground in a small tree. Mosquitos and stinging plants were quite bad here, and we were happy to leave, although the spot is quite beautiful. We drove back to Tula, went N to Palmillas, turned off toward Miquihuana and then to La Peña. Countryside is beautiful here; Chihuahuan desert and some oak woodland. From La Peña, we took a dirt road steeply uphill towards Nalle Hermoso, which passed through desert, then ~~scrubby~~ scrubby juniper and pine, and finally to pine forest. We searched in the pine briefly, but it was really dry. Drove on ~1 km and got to a mixed oak-madrone woodland with a few pines. Searched in leaf litter (not very deep), under rocks, under logs, and in dead agave from 15:00 - 17:15. I got 2 Sceloporus in agave. Mariana got another under a piece of bark and a Pseudoeurycea galeanae under a rock. This looks like marginal salamander habitat, although not unlike the Sierra Nevada foothills or Kern Plateau in CA. The P. galeanae looks a lot like P. cephalica from Guerrero, with small grey + brown spots. We continued 2.8 km up the road after photographing the animals and the habitat changed to an open pine woodland w/ tons of agave. Had burned in the past; lots of logs, many burned. Searched 18:00 - 18:35. I got a P. galeanae inside the leaves of a dead agave + another tiny one under the bark of a fallen log; Rafa got another juv. under a log. Also collected 4 Sceloporus from under logs + bark. It was cloudy most of the day (rained last night), but cleared up in afternoon. Drove to Miquihuana to spend the night.

Kanto, Sean
2012

Journal

Oct. 9

La Peña Nevada area, Nuevo Leon, Mexico

Drove into Nuevo Leon through Chihuahuan desert and went N from La Bolsa on road to Zaragoza. Started to climb in elevation and oak trees appeared after juniper woodland. Stopped at a point 22.6 Km from La Bolsa where a dry streambed crossed the road. There was an open oak forest w/ lots of agave on the slope above the road, and we searched under logs, rocks, & in dead agave from 10:50-11:40. Mariana quickly found 5 Chiripistritia under a log. They are a little more robust than the C. multidentatus that we've been getting and look like photos I've seen of C. priscus. We went on to collect 16 more and left 9-10 juveniles that were too small to collect. Mariana also got a Thamnophis in an agave. This habitat seems rather dry and somewhat marginal for salamanders. Continued on towards La Encantada; road got rather rough in some parts. Started to see more pine trees + grassy areas. Stopped in a mixed pine-oak forest 1.8 Km S of La Encantada and searched under logs for ~30-40 min. Got 10 more C. priscus, 1 microscopic P. galbanus, and a Plestiodon all under logs. The habitat here was a bit more humid than at the first site. We continued on to a site 2.4 Km N of La Encantada, which had a lot of rocks next to the road. Found 25+ Chirips in ~5 min; I would guess there was one under almost every rock. The forest here is much more humid and is a mix of pine, oak, and fir. Continued on to Zaragoza, passing through more fir forest, pine forest, and finally back into arid habitat. Asked around in Zaragoza for the road to Dulces Nombres, a Chirip locality. Apparently, the road is pretty bad, and estimates varied

Rovito, Sean
2012

Journal

La Peña Nevada area, Nuevo Leon, Mexico (cont.)

Oct. 9 ... from 4-7 hours to get to Dales Nombres, and it was late so we decided not to go; also not convinced the track would make it. We drove N through desert, which gradually changed to grassland and open oak woodland. Stopped just N of Puerto Cieneguillas and searched under logs + in dead agaves from ~17:45-18:30. Tons of agave amongst oak trees; habitat was pretty dry, even under some logs. Marissa got a P. gabriellae in the center of a dead agave and Rafa got another under a log. This ranks among the strangest salamander habitat I've seen; seems inhospitable for amphibians. Drove to Matamoros to spend the night at Hotel Juana Maria - pretty nice. The day was sunny + warm, as was the evening.

Cerro Potosi, Matamoros, Nuevo Leon, Mexico

Oct. 10 Woke up late (fixed animals until 02:00) and drove NW out of town up Cerro Potosi. Stopped in what looked like good P. gabriellae habitat, based on what I've seen so far, at 2900m elev. Very open pine woodland; irrigante told us that many trees (all, in some areas) have been cut down b/c of pine bark beetle. We searched from 11:00-11:45, and collected 25 C. princeps (saw at least 10 more) and a Phyllorhina. One Chirip was under a rock, all others under logs. These salamanders are larger + more robust w/ shorter tails compared to those from yesterday; those from Peña Nevada are clearly not C. princeps. Went up to a mixed pine-fir forest at ~3050m elev. and searched for 5 min; saw 2 C. princeps. Drove to a point 24.3km from Matamoros at 2550m elev. and searched for 15-20 min.

Kristen Dean
2012

Journal

Cerro Potosí, Jalisco, Nueva Leon, Mexico (cont.)

Oct. 10

... in a mixed oak-madrone-pine forest. The forest itself was very dry w/ no logs I could find, but we found 3 *C. phisica* under rocks along a stream bed that was fairly humid and had some deep leaf litter. I gave up on finding *P. gabriela* since we needed to get to Tamaulipas w/ time to see how to get to the caves near Conrado Castillo. We drove back to Jalisco, through Tlaxiaco, into Tamaulipas and W from after Plan de Ayala to El Roble, El Olmo, then to La Aurora and finally to Huayabos, which apparently only has 8-10 families. Arrived there at dark, and they let us spend the night in one of the community buildings. Apparently the road to Conrado Castillo is possible; we'll see tomorrow. It was somewhat warm on Cerro Potosí and much warmer in Tamaulipas, and sunny all day.

Conrado Castillo, Mpio. Hidalgo, Tamaulipas, Mexico

Oct. 11

We woke up and started driving uphill at 09:15. The road started off in lowland scrub/thorn forest, which transitioned to oak forest w/ lots of Spanish moss, agave, and cycads around 1100m. Road was possible but rough w/o 4WD; lots of very rocky spots. Once we got to the oak forest, it started to look possible for salamanders; tons of limestone everywhere. Crossed beneath a huge cliff/ledge ~1km long and continued uphill into ligustrum forest w/ some pine. This habitat looks a lot like some areas of El Cielo I saw in 2010. Searched in a roadbank for ~5 min and found an *Eleutherodactylus*. Continued up; road started to get worse. Passed

Fruto, Sean
2012

Journal

Oct. 11

Conrado Castillo, Mpio. Hidalgo, Tamaulipas, Mexico (cont.)

... a stable w/ some horses, went uphill and got to a steep curve the truck couldn't make it up. Tried to turn around at a wide point but truck almost slid off edge; couldn't move backward or forward. After some trying, left everything and walked uphill ~2.5 km to Conrado Castillo, a beautiful village of ~6 houses in the pine forest. A man went by bike to look at the truck while we searched for salamanders. We looked for a total of ~1 hr between 15:00 and 17:00. Found a small P. galeanae inside a log and a huge one under a log, plus a Platydon. Went into the mouth of a number of caves but had no light so couldn't search or go far. There seem to be caves everywhere, and the man who went to look at the truck said he has seen P. galeanae in caves when we showed him one. He came back around 17:15 and said we could only get the truck unstuck w/ another truck, but they didn't have one and we had blocked the road. Some forestry engineers had gone to Rancho Nuevo (~3 km S of Conrado Castillo) and people said they would help us tomorrow at 5 PM when they returned. The situation was complicated by the fact that both rear tires were bald when we got there and were now close to suffering a blowout. We walked an hour back to the truck and finally extricated it by digging out the back wheels and driving over the floodmats for traction. Got to a spot where we could turn around, camped, & make dinner. Started uphill at 20:45 & arrived in Conrado Castillo at 21:45. Went to the Cuera del Brinco, ca. 100 m from town on the road downhill. The opening is enormous, and gives way to a cavernous chamber that stretched back

Rovito, Sean
2012

Journal

Oct. 11

Conrado Castillo, Mpio. Hidalgo, Tamaulipas, Mexico (cont)

... for perhaps 70-80m. Lots of cool cave formations, pools, some bats. Mariana found a big Chiropterobatrax on the cave wall. Kind of reminds me of C. masoni; big feet, slender, really long tail. Could perhaps be the species we got in caves in El Cielo, or C. multidentatus. I found an Eleutherodactylus that escaped. Driving up today, we stopped and searched in a series of small mines and found ~20 (or more) Eleutherodactylus on the walls; they seem abundant in the area. After Cueva del Brujer, we went to another large cave that was dark and darker (when I entered by day). I found another Chiropterobatrax on the ceiling of a small side chamber. I went in one more small cave w/ a really tight entrance and tons of stalactites but found nothing more. All together, we searched from 21:45-23:45, at which point we walked back to camp. It had been cloudy most of the day and warm, with a brief, light rain around 16:00, but cleared up by night and was a bit cool, perhaps around 20°C. Spectacular view of the stars. Wish we could stay here longer. Obviously many more caves to explore, and the road continues to Yerbabuena and Los San Pedros, both of which have caves, and also continues over the crest of the Sierra to Nuevo Leon.

Oct. 13

San Antonio de las Alazas, Coahuila, Mexico

Yesterday we woke up, decamped and drove down to the main road; took just over 3 hours. Drove to Hidalgo and then on to main highway to Linares. I wanted to get to the last site today, E of San Antonio de las Alazas, Coahuila. Took highway towards Monterrey, then

Konto, Sean
2012

Journal

San Antonio de las Alazaras, Coahuila, Mexico (cont.)

Oct. 13

... turned off at Santiago and took a winding, narrow road to Laguna de Sánchez, N.L. This turned out to be a big mistake; would have been much faster to take highway to Saltillo. Road passed through pine, fir, and broadleaf forest that looked very good for salamanders. Continued through Coahuila, which was somewhat drier but still looked more like salamander habitat to me than the P. galeanae sites at Miquihuana and Puerto de Conequillas; definitely worth a look in the future. Arrived in San Antonio de las Alazaras just after dark, too late to look. Everything was wet from a heavy rain that day. This morning, we drove 20.3 km E from the center of town and searched from 09:05 - 10:45 at Las Ojameles cabin (25.22139°N , $100.39462^{\circ}\text{W}$ [$\pm 10\text{m}$], 2729 m elev). Mix of pine and fir forest w/ patches of aspen - looks like spectacular salamander habitat. Looked under rocks and in some good logs but found nothing. Forest extends about halfway up slope on S side of valley; N side is scattered pines w/ agave and shrubs. Went back 2.1 km towards San Antonio and searched in more pine-fir forest and in a roadbank from 11:00 - 11:30 but found nothing. Was surprised we didn't get any C. pizcanus, given how abundant they were on the nearby Cerro Potosí. If this really is their range limit, might have something to do with it. Drove back to DF, made it in just over 8 hours. Stayed w/ Gabriela, who generously took me in.

Rovito, Sean
2012

Journal

Dec. 12

San Francisco El Retiro, Montañas de Cuicero, Depto. Huehuetenango, Guatemala
Arrived in Guatemala at 07:00 on Dec. 10 and drove w/ Carlos Nájquez to Chajul, Quiché, then continued N to Chel, a nice town on the northern slope of the Cuchumatanes in the coffee zone. Spent the night there. In the morning, drove ~5km N to Finca Covadonga, where Sergio Perez had collected mammals in the past, but found that it was all converted to coffee. Searched in nice red bananas amidst coffee for ~30 min and found 7 Bolitoglossa rufescens and an Anolis, all under leaves of banana trees. Went back to Chel and took road E towards Amajchel, looking for a forested site for a bigger trip. About 5km before Aldea Nuevo Amajchel, started to pass through disturbed forest w/ some big trees + bromeliads, between 1500 and 1700m elev.; forest looked much like our site at Bethel. Walked into forest for ~5min + searched in cut board pile. Saw nothing, but looked great for Brachyotriton. Drove to Cuicero to spend the night. This morning, took steep road uphill to San Francisco El Retiro, where we collected what appears to be a new species of both Pseudotriton and Alerania in 2009. Found out that the area has been divided into privately owned parcels of land. Went with a man named Jorge to his parcel and opened ~35 bromeliads in mixed pine-oak-fir forest. Found 2 adults and 8 juvenile Pseudotriton (put back 2 juvs). Looked under a few rotten logs but saw no other salamanders. This area looks more like the Cuchumatanes than it does like the type locality of P. rablii. These Pseudotriton are quite rugose and have either a tan stripe on the back or are light grey-brown w/ a few small, yellow spots. Adults are fairly large. Conditions were good - dry outside but perfect amount of moisture in bromeliads. Drove down and went to Todos Santos Cuchumatán to spend the night.

Rovito, Sean
2012

Journal

Dec. 13

Jodos Santos Cuchumatán, Depto. Huehuetenango, Guatemala

We stopped by the municipalidad and got a man named Amibal Domingo Pablos, who works for CONAF, to go to Nilla Alicia with us. We think this is where Manuel Ojeda found a Hemiteles. Drove 13.2 km from Jodos Santos Cuchumatán to a stream. Walked up the stream for ~50m, then took a steep path uphill through some secondary forest. Ended up climbing an extremely steep slope; nearly vertical in parts, and I got hit by two falling rocks. Finally made it to an area with some big oak trees and a few bromeliads where we searched for 45 min - 1 hr, ending around 13:00. On the way up, I found 2 Plectrohyla that look like small Pixil to me; both were out on the path, and were probably stirred up by Carlos + Amibal walking by. Carlos and I each found 1 more in bromeliads, and I got a tiny B. cuchumatana.

There weren't many bromeliads; we missed 15-20. Arrived at a flat area w/ lots of logs that looked good, but Amibal needed to get back to the munic so we left; spent much more time walking to the site than we did searching. Found a much better path down, drove back to Jodos Santos, and continued on to Guatemala City, where we slept at Carlos' house.

Dec. 14

Volcán Tecuambulero, Depto. Santa Rosa, Guatemala

Drove from Guatemala City to Cuilapa, took road to Chiquimulilla, turned off towards chaparral, and then drove on to Finca Linda Nista, Tecuambulero. Apparently, the entire volcano is private land on coffee fincas, but we talked to the owner's daughter and she gave us permission to hike up. Left the truck in a field next to what looks like an old thermal area; some water flowing across it into a pool and tons of sulfur + white rocks.

Rovito, Sean
2012

Journal

Volcán Tecuapetla, Depto. Santa Rosa, Guatemala (cont.)

Dec. 14

... We started hiking up the eastern peak, which we were told has the best forest. First went through coffee w/ pine trees, then a forest of deciduous trees with lots of ~~weedy~~ undergrowth (typical disturbed dry forest) and finally got to some oak forest w/ a few bromeliads and less weedy undergrowth around 1750m elev. I opened 2 bromeliads from a small tree and the second one had two Bolitoglossa in it. They were both small (<40mm SVL), brown w/ some dorsal spots, and had short, stout tails. They look like Campbell's photo of B. kaschidulorum, which is on Volcán Pacaya. Feet are partially webbed, dark w/ white speckling. We opened 26 bromeliads and got 11 Bolitoglossa total and 2 Ptychocheilus euthysanota. Bromeliads varied from completely dry to having some water; rest of forest was very dry, even under logs. I hiked to the summit, which has somewhat denser oak forest w/ a few pines and fewer bromeliads. We hiked back down, since we didn't want to cut down too many bromeliads. Started hiking up around 11:00, searched from 11:50-13:00, and got back down around 13:45. Drove to the coastal highway after photographing animals, then drove up to Mayuta. Got there a little late to start up the volcano so we spent the night. I felt sick, and vomited twice after finishing with specimen preparation. Think twice before ordering a licho de frutas in Chigüinulilla.

Volcán Mayuta, Depto. Jutiapa, Guatemala

Dec. 15

Had breakfast, then drove partway up Volcán Mayuta through coffee. Started hiking up through more coffee where road ended. Searched in red bananas for ~30 min beginning at 1580m elev.; both Carlos and I got a Trachycephalus venulosus. Hiked up to a ridge at the

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Kantor, Sean
2012

Journal

Volcán Moyuta, Depto. Juchitán, Oaxaca (cont.)

Dec. 15

... summit, where there is a narrow band of what looks like original forest. There were fairly big broadleaf trees, abundant ferns and other small plants and shrubs; no good bromeliads for salamanders, but there were some with thin, tough leaves. Hiked back down and drove to Volcán Chingo. At base of volcano, spoke with Paty Rios, who is in charge of permission. She told us that the entire volcano is private land. We were welcome to go up, but it ~~would~~ would take 2.5-3 hr. It was already almost 16:00, so we decided to leave and try to see if we could access the Oaxacan part of El Triunfo from the Sahadorean side, which has road access. Crossed into El Salvador and spent night in Metapán. Good pupusas, nice parque central, severe lack of affordable hotels.

Sean M. Rovito

2012

Photo Log #8339-10052

Rovito, Sean
2012

Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
1/12/12	8339-8359	SMR1702, <u>Bolitoglossa engelhardti</u>
	8360-8374	SMR1700, <u>Craugastor lineatus</u>
	8375-8386	SMR1704, <u>Craugastor rupinius</u>
	8387-8388	SMR1701, <u>Anolis dewlao</u>
	8390-8418	SMR1706, <u>Bolitoglossa salvinii</u>
	8419-8426	SMR1708, <u>Craugastor</u> ~~luteus~~ ^{luteus}
	8427-8431	CRVA2954, <u>Sphenomorphus assatus</u>
	8432-8443	SMR1710, <u>Anolis dollfusianus</u>
	8444-8452	CRVA2949, <u>Anolis serranoi</u>
	8453-8458	SMR1706, <u>B. engelhardti</u> , ventral
	8459-8475	CRVA2956, <u>Dendrotriton bromeliacius</u>
	8476-8494	SMR1715, <u>Abronia aurita</u>
	8495-8496	CRVA2965, <u>Ameiva undulata</u>
1/15/12	8497-8505	forest above Finca Magnolia Miramar, Volcán Lacandón
	8507-8515	coffee + views from Finca Magnolia Miramar
	8516-8523	group photo, Finca Magnolia Miramar
1/16/12	8524-8530	setting up mist nets, Volcán Atitlán
1/17/12	8531-8532	bird prepping, Volcán Atitlán
	8533-8540	bromeliad cutting, Volcán Atitlán
	8541-8543	horned guan, "
	8546-8549	Volcán Acateñango + Fuego from Volcán Atitlán
	8552-8560	CRVA2971, <u>B. engelhardti</u>
1/18/12	8561-8581	SMR1732, <u>Bolitoglossa</u>
	8583-8585	Volcán Atitlán, S slope
	8586-8587	Volcán Acateñango + Fuego from Volcán Atitlán

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Rovito, Sean
2012

Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
1/18/12	8588-8593	SMR1732, <u>Bolitoglossa</u> , venter
1/19/12	8594-8606	SMR1750, <u>Batrachoseps bicolor</u>
	8607-8617	CRVA2978, <u>Sibon nebulatus</u>
	8618-8629	SMR1734, <u>Bolitoglossa engelhardti</u>
	8630-8634	SMR1744 (♀) + 1745 (♂), <u>Ptychocheilus matudai</u> , amplexus
	8635-8644	SMR1744, <u>P. matudai</u>
	8645-8649	Lake Atitlan, from road from Panajachel to Patulul
	8650-8653	SMR1734, <u>B. engelhardti</u> , ventral
1/20/12	8654-8678	CRVA2995, <u>Bolitoglossa salvinii</u>
	8679-8690	CRVA2997, <u>Craugastor rupestris</u>
	8691-8695	SMR1759, " "
	8696-8711	SMR1767, <u>Leptodeira septentrionalis</u>
	8712-8737	SMR1754, <u>Ptychocheilus euthysanota</u>
	8738-8749	SMR1769, <u>Anolis serranoi</u>
	8750-8753	mammal prepping, Finca San Jerónimo Miramar
	8754-8756	<u>Marmosa mexicana</u> , "

الاسم	الرقم	الدرجة
أحمد محمد	100-100	100
عبدالله بن	200-200	200
محمد بن	300-300	300
علي بن	400-400	400
سليمان بن	500-500	500
عبدالمجيد بن	600-600	600
عبدالحق بن	700-700	700
عبدالمجيد بن	800-800	800
عبدالحق بن	900-900	900
عبدالمجيد بن	1000-1000	1000
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عبدالمجيد بن	1200-1200	1200
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Rovito, Sean
2012

Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
6/5/12	8875-8884	SMR1781, <u>Elentherodactylus nivicolimae</u>
	8885-8888	SMR1779, <u>Geophis</u>
	8889-8898	SMR1780
6/7/12	8899-8920	Guanajuato
	8921-8929	<u>Pseudoeurycea</u> sp. nov., Cerro Pingüices
6/8/12	8930-8968	SMR1782, "
	8969-8973	SMR1797, <u>Sceloporus</u>
	8975-8990	<u>Chirotetrion magnipes</u> , Durango, Hidalgo (not collected)
	8991-9000	entrance to "El Coni" cave, Durango, Hidalgo
	9001	rock near Durango, Hidalgo
	9002-9003	view from above Durango, Hidalgo
	9006-9007	misotano, Durango, Hidalgo
	9008-9009	habitat near "
	9011-9028	SMR1795, <u>Crotalus</u>
6/9/12	9029-9032	SMR1782, <u>Pseudoeurycea</u> sp., venter
6/12/12	9034-9040	SMR1800, <u>Oxyrhopus petola</u>
6/13/12	9042-9048	flying ant, Tila, Chiapas
6/14/12	9049-9055	SMR1807, <u>Bolitoglossa hartwegi</u>
	9056-9074	SMR1808, <u>Bradytriton</u>
	9075-9082	SMR1803, <u>Bolitoglossa</u>
	9083-9085	SMR1801, <u>Smilisca cyanasticta</u>
	9086-9093	prepping, San Francisco Jimbal
	9094-9105	SMR1808, <u>Bradytriton</u> , ventral
6/17/12	9106-9138	SMR1818, <u>Pseudoeurycea</u>
	9139-9144	SMR1820, <u>Rhadinea lachrymans</u>

Rovito, Sean
2012

Photo log

Date	Photo #	Description
6/17/12	9145-9147, 9205-9206	bird prepping, Cerro Mozotal
	9148-9150	view from Summit of Cerro Mozotal
	9151-9156	camp, Cerro Mozotal
6/18/12	9157-9176	SMR1823, <u>Bolitoglossa franklini nigroflavescens</u>
	9177-9192	SMR1821, <u>Plectrohyla hartwegi</u>
	9196-9204	SMR1822, <u>B. f. nigroflavescens</u>
	9207-9213	pine forest, Cerro Mozotal
	9214-9221	SMR1818, <u>Pseudoeurycea</u> , ventral
	9223-9227	SMR1827, <u>Mesaspis moreletii</u>
6/19/12	9228-9244	SMR1832, <u>Pseudoeurycea</u> sp.
	9245-9256	SMR1833, "
	9257-9262	SMR1831, <u>Geophis</u>
	9263-9268	SMR1828+1829, <u>Bufo bocourti</u> , amplexus
	9269-9276	SMR1830, <u>Bufo bocourti</u>
	9277-9280	SMR1832, <u>Pseudoeurycea</u> , ventral
	9281-9282	SMR1833, "
6/20/12	9283-9284	eating in camp, Mozotal
	9285-9292	habitat where <u>Pseudoeurycea</u> found, Cerro Mozotal
	9295	group photo, Cerro Mozotal
	9297-9303	views of Tacana + forest from Cerro Mozotal
6/22/12	9304-9313	forest, Cerro Boqueron
	9314-9322	SMR1857, <u>Bolitoglossa franklini nigroflavescens</u>
	9323-9330	SMR1859, " "
	9331-9342	SMR1862, <u>Bolitoglossa flavimembris</u>
	9344-9347	SMR1867, <u>Rhacilinea</u>

الزمن

الوقت

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Rovito, Sean
2012

Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
6/22/12	9348-9353	SMR1849, <u>Anolis crassulus</u>
	9356-9357	SMR1848, <u>Geophis</u>
	9358-9365	toucanet w/ Erick + Dan
	9366-9367	SMR1846, <u>Thamnophis</u> <u>filvus</u>
6/23/12	9368-9381	SMR1870, <u>Plectrohyla</u> <u>sagorum</u>
6/24/12	9382-9401	SMR1876, <u>Plectrohyla</u> <u>alta</u>
	9402-9409	SMR1877, <u>Craugastor</u>
	9410-9416	people w/ toucanet, Boqueron
	9417-9426	SMR1905, <u>Hydromys</u> <u>enthysagata</u>
6/25/12	9427-9439	SMR1902, <u>Duellmanohyla</u> <u>schmidtorum</u>
	9440-9446	SMR1910, <u>Anolis</u> <u>matudai</u>
	9449-9451	SMR1914, <u>Geophis</u> <u>nasalis</u>
	9452-9460	SMR1913, <u>Silbon</u>
	9461-9466	working w/ birds + kids, Boqueron
6/26/12	9467-9471	SMR1921, <u>Bufo</u>

اسم	رقم	ملاحظات
محمد بن عبد الله	101	
أحمد بن محمد	102	
علي بن علي	103	
إبراهيم بن أحمد	104	
يوسف بن علي	105	
حسن بن محمد	106	
محمود بن علي	107	
عبد الرحمن بن أحمد	108	
أبو بكر بن محمد	109	
عبد الله بن علي	110	
أحمد بن علي	111	
علي بن أحمد	112	
إبراهيم بن محمد	113	
يوسف بن أحمد	114	
حسن بن علي	115	
محمود بن محمد	116	
عبد الرحمن بن علي	117	
أبو بكر بن أحمد	118	
عبد الله بن محمد	119	
أحمد بن علي	120	

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2012

Photo Log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
10/6/12	9539-9546	Cueva El Madroño + surrounding area, Sierra de Alvarez
10/7/12	9547-9551	Ejido Acahual, on road from Ocampo to Tula
	9552-9560	SMR1944, <u>Eleutherodactylus</u> <u>syristes</u>
	9561-9566	SMR1943, <u>Craugastor</u> <u>angusti</u>
	9567-9573	SMR1938, <u>Rana</u> <u>berlandieri</u>
	9574-9578	SMR1931, <u>Geophis</u>
	9579-9582	SMR1945, <u>Leptodeira</u> <u>septentrionalis</u>
10/8/12	9583-9590	SMR1933, <u>Chiropterotriton</u> <u>multidentatus</u>
	9591-9601	SMR1946, <u>Pseudoeurycea</u> <u>scandens</u>
	9602-9613	SMR1935, <u>C. multidentatus</u>
	9614-9620	SMR1949, <u>Eleutherodactylus</u>
	9621-9636	SMR1948, <u>C. multidentatus</u>
	9637-9640	<u>P. galeanae</u> habitat, road from La Peña to Valle Hermoso
	9641-9657	SMR1951, <u>P. galeanae</u>
	9658-9663	SMR1952, <u>Sceloporus</u>
	9665-9667	<u>P. galeanae</u> habitat, 14.2 km from La Peña on rd to V.H.
	9668-9679	views from road down to La Peña from <u>P. galeanae</u> site
10/9/12	9680-9699	SMR1962, <u>Chiropterotriton</u> <u>priscus</u>
	9700-9706	SMR1983, <u>Thamnophis</u>
	9707-9712	habitat at Chirop site 22.6 km N of La Balsa
	9713-9714	habitat 1.8 km S of La Encantada
	9715-9716	La Encantada, on road from La Balsa to Zaragoza
	9717	habitat N of La Encantada where SMR1998 collected
	9718-9729	habitat at Puerto de Cieneguillas, S of Pablillo
	9730-9735	SMR2000, <u>P. galeanae</u>
	9736-9753	SMR1999, " "

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2012

Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
10/10/12	9755-9758	habitat, Cerro Potasí, site where Chirops found
	9759-9787	SMR2003, <u>Chiropteratriton</u> <u>priscus</u> long pass along ledge
10/11/12	9789-9795	on road to Conrado Castillo, just before ~~Paseo de la Muerte~~
	9796-9799	road to Conrado Castillo, habitat where SMR2024 found
	9801	ophelionids, cave where SMR2025 found
	9802-9810	<u>Elenetheradactylus</u> , "
	9811-9815	Cueva del Brinco, Conrado Castillo
	9816-9819	cave + bat, Conrado Castillo
10/12/12	9820-9845, ^{9856, 9858}	SMR2033, <u>Chiropteratriton</u>
	9846-9855	SMR2034, <u>P. galeanae</u>
	9859-9865	SMR2025, <u>Elenetheradactylus</u>
	9866-9867	forest ca. 2.5 km from Conrado Castillo
	9868-9870	SMR2033, ventral
10/13/12	9871-9878	forest 20.3 km E (by rd) of San Antonio de las Alazanas, Coahuila
12/13/12	9879-9921	SMR2043, <u>Dendrotriton</u> sp.
	9923-9929	SMR2047, <u>Plectrohyla</u>
	9930-9934	SMR2048, <u>Plectrohyla</u>
	9935-9941	CRVA3232, <u>Plectrohyla</u> sp.
12/14/12	9942-9947	<u>Bolitoglossa</u> habitat, Volcán Tecuamburro
	9948-9951, 9956	forest, Volcán Tecuamburro
	9952-9955, 9957-9963	thermal area, Finca Linda Vista, Volcán Tecuamburro
	9964-9991	SMR2050, <u>Bolitoglossa</u>
	¹⁰⁰ -9992- ¹⁰¹ 0012	SMR2051, <u>Bolitoglossa</u>
	¹⁰¹ -0013-0022	SMR2055, <u>Ptychohyla</u> <u>euthysanota</u>
	0025-0026	Volcán Moyata at dusk, from Moyata

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2012

Photo Log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
12/15/12	101-0028	Volcán Mayatá from Mayatá
	0029-0031	tiny patch of forest on Volcán Mayatá
	0032-0033	view from summit of Volcán Mayatá
	0034-0052	SMR2056, <u>Trachyrhynchus venulosus</u>

July

July 1st - Sunday
July 2nd - Monday
July 3rd - Tuesday
July 4th - Wednesday
July 5th - Thursday
July 6th - Friday
July 7th - Saturday

Sean M. Rovito

2013

Catalogue #2057-2326

USA: California: Alameda, Del Norte,
Humboldt

Guatemala: Huehuetenango,
an Marcos, Santa Rosa

Mexico: Chiapas, Oaxaca

THE UNIVERSITY OF CHICAGO

1964

DEPARTMENT OF CHEMISTRY

RESEARCH REPORT NO. 100

BY J. H. HARRIS

AND J. E. HARRIS

CHICAGO, ILLINOIS

Rovito, Sean
2013

Catalogue

San Francisco el Retiro, ~~16.3~~ Km N (by rd) from RN-7W
from San Ildefonso Ixtahuacan to Cuilco, Montañas de Cuilco, Mpio.
Cuilco, Depto. Huehuetenango, Guatemala

June 2 15.48533°N, 91.93269°W [$\pm 5m$], 2956m elev.

SMR 2057 Sceloporus smaragdinus adult ♂ RNA Later - L 6/3/13
2058 Anolis adult ♀ " "
2059 Cerrophidion gadmani adult 36.3cm SVL " "
2060 Bolitoglossa morio adult ♂ " "

June 3 15.48605°N, 91.93498°W [$\pm 7m$], 2978m elev.

SMR 2061 S. smaragdinus adult ♂ " "
2062 " " adult ♀ " "

15.48533°N, 91.93269°W [$\pm 5m$], 2956m elev.

SMR 2063 Mesaspis moreletii adult ♂ " "
2064 Thamnophis fulvus adult 27cm SVL " "
2065 Anolis juv. " "

15.47991°N, 91.93076°W [$\pm 10m$], 2916m elev. sinkholes

SMR 2066 Pseudoeurycea rex adult ♀ RNA Later - L 6/3/13
2067 " " adult ♀ " "
2068 B. morio adult ♂ " "
2069 S. smaragdinus adult ♂ " "
- blood slides of 2066 - 2068, CRVA 3254, 3256

June 4 15.48533°N, 91.93269°W [$\pm 5m$], 2956m elev.

SMR 2070 Mesaspis moreletii adult ♂ 5.3g RNA Later - L 6/5/13

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Rovito, Sean
2013

Catalogue

San Francisco el Retiro, ~~16.3~~ Km N (by rd) of RN-7W
from San Idefonso Ixtahuacan to Cuilco, Montañas de Cuilco,
Mpio. Cuilco, Depto. Huehuetenango, Guatemala

June 4

Cueva la Sepultura

15.47672°N, 91.92625°W [$\pm 9m$], 2940m elev.

SMR2071 Sceloporus smaragdinus adult ♂ RNALater-L 6/5/13

2072 Pseudoeurycea rex adult ♂ RNALater-L_{I, II, testis} 6/5/13

15.4⁷⁹⁹¹~~7991~~°N, 91.93⁰⁷⁶~~076~~°W [$\pm 10m$], 2906m elev.

SMR2073 S. smaragdinus adult ♂ 8.2g RNALater-L 6/5/13

15.48352°N, 91.92846°W [$\pm 4m$], 3022m elev.

SMR2074 P. rex subadult RNALater-L 6/5/13

15.48172°N, 91.93302°W [$\pm 10m$], 2904m elev.

SMR2075 Cerrophidion gadmani adult ♂ ^{15.5g} 24cm SVL RNALater-L 6/5/13

June 5

15.48352°N, 91.92846°W [$\pm 4m$], 3022m elev.

SMR2076 Dendrotriton sp. nov. adult ♀ RNALater-L 6/5/13

2077 " " adult ♂ " "

2078 " " adult ♀ " "

2079 " " subadult " "

- blood slides of SMR 2076-77

15.48533°N, 91.93269°W [$\pm 5m$], 2956m elev.

June 2

SMR2080 Mesaspis moreletii adult ♂ RNALater-L 6/5/13
- lost on 6/2/12, found dead in ice in cooler today

Mathematics

Chapter 1: Introduction to Algebra
This chapter covers the basic concepts of algebra, including variables, constants, and the order of operations.

Section 1.1: Variables and Constants
Variables are symbols that represent unknown values, while constants are fixed values.

Section 1.2: The Order of Operations
The order of operations is a set of rules that dictate the sequence in which mathematical operations should be performed.

Section 1.3: Solving Linear Equations
This section introduces the methods for solving linear equations, which are equations of the form $ax + b = c$.

Section 1.4: Graphing Linear Equations
Graphing linear equations involves plotting the equation on a coordinate plane to visualize its solution set.

Section 1.5: Systems of Linear Equations
A system of linear equations consists of two or more linear equations with the same variables.

Section 1.6: Inequalities
Inequalities are mathematical statements that compare two values using symbols like $<$, $>$, $\leq$, and $\geq$.

Section 1.7: Absolute Value Equations and Inequalities
Absolute value equations and inequalities involve the absolute value function, which measures the distance of a number from zero.

Rovito, Jean
2013

Catalogue

		16.3	
		San Francisco el Retiro, ~~16.3~~ km N (by rd) of RN-7W from San Idelfonso Ixtahuacan to Cuilco, Montañas de Cuilco, Mpio. Cuilco, Depto. Huehuetenango, Guatemala	
June 5	15.47991°N, 91.93076°W [$\pm 10m$], 2916m elev.	sinkholes	
	SMR2081 <u>Pseudoeurycea rex</u>	adult ♂	RNA Later - L 6/6/13
	2082 "	" adult ♂	" "
		Cruz Malin, 2.3 km W (by air) of Aldea La Crindina, Sierra de los Cuchumatanes, Mpio. Soloma, Depto. Huehuetenango, Guatemala	
June 8	15.68176°N, 91.23022°W [$\pm 10m$], 1901m elev.		
	SMR2083 <u>Craugastor</u>		RNA Later - L 6/9/13
	2084 "	"	" "
	2085 <u>Bolitoglossa cuchumatana</u>	adult ♂	" "
	2086 "	" juv.	RNA Later - L, I 6/9/13
	2087 "	" juv.	" "
	2088 <u>Plectrohyla ixil</u>	adult ♀	RNA Later - L 6/9/13
	2089 <u>Anolis</u>	adult ♂	RNA Later - L 6/9/13
June 9	2090 <u>Craugastor</u>	adult	" "
	2091 <u>B. cuchumatana</u>	juv.	RNA Later - L, I 6/9/13
	2092 <u>Craugastor</u>	adult	RNA Later - L 6/10/13
	2093 "	" adult	" "
	2094 "	" adult	" "
June 10	2095 <u>B. cuchumatana</u>	juv.	RNA Later - L, I 6/11/13
	2096 <u>Craugastor</u>	adult	RNA Later - L 6/11/13
	2097 "	" adult	" "

مذكرة

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Rovito, Sean
2013

Catalogue

Cruz Matin, 2.3 Km W (by air) of Aldea La Crinolina, Sierra de los
Cuchumatanes, Mpio. Soloma, Depto. Huehuetenango, Guatemala

June 10 15.68048°N, 91.23804°W [$\pm 8m$], 2220m elev.

SMR2098 Bolitoglossa hartwegi adult ♀ ^{blood} slide RNALater - L 6/11/13

2099 Bolitoglossa cuchumatana adult " " " "

15.68118°N, 91.24020°W [$\pm 7m$], 2314m elev.

SMR2100 B. cuchumatana subadult RNALater - L 6/11/13

Aldea La Crinolina, Mpio. Soloma, Depto. Huehuetenango, Guatemala

June 12 15.68324°N, 91.20631°W [$\pm 10m$], 1870m elev.

SMR2101 Bolitoglossa rufescens adult ♀ ^{blood} slide RNALater - 6/12/13

Finca Linda Vista, Volcán Tecumburro, Mpio. Pueblo Nuevo Viñas,
Depto. Santa Rosa, Guatemala

14.15168°N, 90.41618°W [$\pm 6m$], 1472m elev.

June 15 SMR2102 Agalychnis moreletii adult ♀ RNALater - L 6/16/13

2103 Rana maculata juv. " "

2104 " " juv. " "

June 16 SMR2105 Anabacerthia variegaticeps ♀ wt: 19.7g, skull 95% ossified,
no molt, very light fat, stomach: black organic matter

RNALater: L - MVZ Barcode 154741, HMK: 154742; ETH - L, M

Net 8

تاریخ

در این کتاب به تاریخ و سیرت ائمه اطهار علیهم السلام پرداخته شده است.

این کتاب در سال ۱۳۰۰ هجری قمری تألیف گردید.

مؤلف این کتاب، شیخ محمد باقر است.

این کتاب در ۱۰ جلد تألیف گردید.

این کتاب در سال ۱۳۰۰ هجری قمری چاپ گردید.

این کتاب در ۱۰ جلد چاپ گردید.

این کتاب در سال ۱۳۰۰ هجری قمری چاپ گردید.

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این کتاب در ۱۰ جلد چاپ گردید.

این کتاب در سال ۱۳۰۰ هجری قمری چاپ گردید.

Rovito, Sean
2013

Catalogue

Finca Linda Vista, Volcán Tecuamburro, Mpio. Pueblo Nuevo Viñas,
Depto. Santa Rosa, Guatemala

June 16 14.15526°N, 90.40906°W [$\pm 6m$], 1750m elev.

SMR2106 Bolitoglossa adult ♀ ^{blood}slide RNALater-L 6/17/13

2107 Anolis crassulus adult ♀ 3.8g " "

14.15146°N, 90.41267°W [$\pm 7m$], 1484m elev.

SMR2108 Cryptophanes percarinatus adult ♂ 17.6g RNALater-L 6/17/13

14.15168°N, 90.41618°W [$\pm 6m$], 1472m elev.

SMR2109 Smilisca baudinii adult ♂ RNALater-L 6/17/13

2110 Rana maculata juv. " on road to Laganá Ixtapa

1.8 km S (by rd) of highway from Cuilapa to Chiquimulilla,
Mpio. Pueblo Nuevo Viñas, Depto. Santa Rosa, Guatemala

June 17 14.18917°N, 90.41225°W [$\pm 10m$], 1125m elev.

SMR2111 Ninia sebae adult ♂ 8.0g 24.8cm SVL RNALater-L 6/17/13

2112 ~~Incilius~~ canaliferus adult " "

2113 Ptychocheilus euthysanota adult ♂ " "

2114 Anolis macrophallus adult ♂ " "

2115 Sebenamorphus assatus juv. RNALater-L, I 6/17/13

2116 ~~Incilius~~ canaliferus adult RNALater-L 6/17/13

2117 Leptodeira annulata adult ♂ " "

Rovito, Sean
2013

Catalogue

1.8 Km S (by rd) of MX Hwy 190 on road to Santa María Ecatepec,
Mpio. Santa María Ecatepec, Oaxaca, Mexico
July 4 16.38741°N, 95.78781°W [$\pm 10m$], 760m elev.
SMR2118 Mantidipis putnami DOR adult ♂ RNALater - L 7/4/13

6.3 Km NE (by rd) of Santa María Ecatepec on road to MX Hwy 190,
Mpio. Santa María Ecatepec, Oaxaca, Mexico
July 4 16.30292°N, 95.84532°W [$\pm 10m$], 1551 m elev.
SMR2119 Sphenomorphus adult ♂ RNALater - L 7/6/13

0.7 Km E (by rd) of Santa María Ecatepec on road to MX Hwy 190,
Mpio. Santa María Ecatepec, Oaxaca, Mexico
July 4 16.28714°N, 95.87217°W [$\pm 9m$], 1850m elev.
SMR2120 Bolitoglossa zapoteca adult ♀ RNALater - L 7/6/13
2121 " " adult " "
2122 " " adult " "
2123 " " adult " "

3.0 Km ENE (by rd) of Santa María Ecatepec on road to MX Hwy 190,
Mpio. Santa María Ecatepec, Oaxaca, Mexico
July 4 16.29267°N, 95.85876°W [$\pm 10m$], 1840m elev.
SMR2124 Bolitoglossa zapoteca adult RNALater - L 7/6/13
2125 " " adult " "

- blood slides of SMR2120 - 2124

Chapter 5

The first part of the chapter discusses the importance of the study of the history of the world. It is a subject that is often overlooked, but it is one that is essential for a full understanding of the world we live in. The second part of the chapter discusses the importance of the study of the history of the United States. It is a subject that is often overlooked, but it is one that is essential for a full understanding of the United States we live in.

The third part of the chapter discusses the importance of the study of the history of the world. It is a subject that is often overlooked, but it is one that is essential for a full understanding of the world we live in. The fourth part of the chapter discusses the importance of the study of the history of the United States. It is a subject that is often overlooked, but it is one that is essential for a full understanding of the United States we live in.

The fifth part of the chapter discusses the importance of the study of the history of the world. It is a subject that is often overlooked, but it is one that is essential for a full understanding of the world we live in. The sixth part of the chapter discusses the importance of the study of the history of the United States. It is a subject that is often overlooked, but it is one that is essential for a full understanding of the United States we live in.

The seventh part of the chapter discusses the importance of the study of the history of the world. It is a subject that is often overlooked, but it is one that is essential for a full understanding of the world we live in. The eighth part of the chapter discusses the importance of the study of the history of the United States. It is a subject that is often overlooked, but it is one that is essential for a full understanding of the United States we live in.

The ninth part of the chapter discusses the importance of the study of the history of the world. It is a subject that is often overlooked, but it is one that is essential for a full understanding of the world we live in. The tenth part of the chapter discusses the importance of the study of the history of the United States. It is a subject that is often overlooked, but it is one that is essential for a full understanding of the United States we live in.

The eleventh part of the chapter discusses the importance of the study of the history of the world. It is a subject that is often overlooked, but it is one that is essential for a full understanding of the world we live in. The twelfth part of the chapter discusses the importance of the study of the history of the United States. It is a subject that is often overlooked, but it is one that is essential for a full understanding of the United States we live in.

Rovito, Sean
2013

Catalogue

5.8 km NW (by rd) of MX Hwy 179 on road to Totontepec,
Mpio. Totontepec Villa de Morelos, Oaxaca, Mexico

July 5

17.17859°N, 96.05719°W [$\pm 9m$], 2611 m elev.

SMR2126 Pseudoeurycea juarezi adult ♂ RNALater-L 7/6/13

2127 " " adult ♀ " "

2128 " " adult ♀ " "

2129 " " subadult " "

2130 " " juv. RNALater-L, I 7/6/13

2131 Mesaspis moreletii adult ♂ RNALater-L 7/6/13

- blood slides of SMR2126-2130

5.0 km WNW (by air) of Ejido Constitución, Sierra Espinazo del
Diablo, Mpio. Cintalapa de Figueroa, Chiapas, Mexico

Aug. 14

16.96416°N, 93.98069°W [$\pm 9m$], 1122 m elev.

SMR2132 Bolitoglossa rufescens adult ♀ RNALater-L 8/15/13 0.5g

2133 Micrurus elegans adult ♀ 10.25g, 37cm SVL RNALater-L 8/15/13

5.2 km WNW (by air) of Ejido Constitución, "

Aug. 14

16.96641°N, 93.98132°W [$\pm 8m$], 1171 m elev.

SMR2134 B. rufescens adult RNALater-L, I 8/15/13

2135 Craugastor loki adult 1.3g RNALater-L, I 8/15/13

2136 " " adult 1.0g " "

2137 " " juv. " "

2138 Lepidophyma tuxtlae subadult ♀ 3.0g RNALater-L 8/15/13

2139 Anolis adult ♀ 1.8g " "

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الحمد لله الذي جعل العلم نوراً يضيء القلب
ويعلم الإنسان ما كان لا يعلم

الحمد لله الذي جعل العلم نوراً يضيء القلب
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الحمد لله الذي جعل العلم نوراً يضيء القلب
ويعلم الإنسان ما كان لا يعلم

Rovito, Sean
2013

Catalogue

4.4 km W (by air) of Ejido Constitución, Sierra Espinazo del Diablo,
Mpio. Cintalapa de Figueroa, Chiapas, Mexico

Aug. 14 16.95790°N, 93.97854°W [$\pm 9m$], 1182m elev.

SMR2140 Craugastor lok adult 3.4g RNALater-L 8/15/13

2141 " " adult 5.1g " "

2142 " " adult 1.4g " "

2143 Rhinella marina ~~marina~~ juv. 13.25g " "

2144 " " ~~marina~~ juv. 16.5g " "

2145 Rhinella marina juv. 14.0g " "

2146 " " juv. 4.9g " "

4.8 km WNW (by air) of Ejido Constitución, "

Aug. 14 16.96115°N, 93.97893°W [$\pm 9m$], 1128m elev.

SMR2147 C. lok adult 4.8g RNALater-L 8/15/13

2148 " " adult 3.5g " "

2149 Rana brownorum adult 16.0g " "

2150 Rana juv. 6.5g " "

2151 Rana adult " "

2152 Smilisca cyanosticta adult ♀ 21.0g " "

2153 " " adult ♀ 17.5g " "

2154 " " adult ♂ 7.4g " "

2155 " " adult ♂ 8.6g " "

2156 " " adult ♂ 8.0g " "

2157 Smilisca baudini adult ♂ 25.75g " "

2158 " " adult ♂ " "

Table

Table 1: Summary of the data collected during the experiment.

Time (min)	Temperature (°C)	Pressure (kPa)	Flow Rate (L/min)
0	25.0	101.3	1.0
5	25.5	101.5	1.0
10	26.0	101.8	1.0
15	26.5	102.0	1.0
20	27.0	102.2	1.0
25	27.5	102.5	1.0
30	28.0	102.8	1.0
35	28.5	103.0	1.0
40	29.0	103.2	1.0
45	29.5	103.5	1.0
50	30.0	103.8	1.0
55	30.5	104.0	1.0
60	31.0	104.2	1.0
65	31.5	104.5	1.0
70	32.0	104.8	1.0
75	32.5	105.0	1.0
80	33.0	105.2	1.0
85	33.5	105.5	1.0
90	34.0	105.8	1.0
95	34.5	106.0	1.0
100	35.0	106.2	1.0

Rovito, Sean
2013

Catalogue

4.7 km WNW (by air) of Ejido Constitución, Sierra Espinazo del
Diablo, Mpio. Cintalapa de Figueroa, Chiapas, Mexico

Aug. 14

16.96248°N, 93.97179°W [$\pm 11m$], 1138 m elev.

SMR 2159

-hybrid metamorph

metamorph

RNA Later - tail 8/15/13

4.4 km ^{WNW} WNW (by air) of Ejido Constitución, "

Aug. 14

16.95790°N, 93.97854°W [$\pm 9m$], 1182 m elev.

SMR 2160 Bolitoglossa rufescens adult ♀ 0.7g RNA Later - L, I 8/16/13

2161 " " adult 0.4g " "

2162 " " adult ♂ 0.3g " "

2163 Craugastor loki adult 2.3g RNA Later - L 8/15/13

2164 Anotheca spinosa adult RNA Later - L 8/16/13

2165 Anolis barkeri adult ♀ 1.9g

Aug. 15

SMR 2166 Bolitoglossa ^{alberchi} ~~platyactyla~~ adult ♀ 5.3g RNA Later - L 8/16/13

2167 " " juv. 0.7g RNA Later - L, I 8/16/13

2168 B. rufescens adult ♀ 0.6g " "

Blood 2169 " " adult ♀ 0.7g " "

slide 2170 " " adult ♀ 0.7g " "

↓ 2171 " " adult ♀ 0.5g " "

↓ 2172 " " adult ♂ 0.4g " "

2173 " " adult ♀ 0.4g " "

2174 " " adult ♂ 0.4g " "

2175 " " adult 0.5g " "

2176 " " adult ♀ 0.6g " "

2177 Craugastor lineatus adult 2.2g RNA Later - L 8/16/13

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1. The first part of the paper is devoted to a discussion of the

main results of the paper. The second part is devoted to a

discussion of the results of the paper. The third part is devoted to a

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Rovito, Sean
2013

Catalogue

- 4.4 Km ^{WNW} (by air) of Ejido Constitución, Sierra Espinazo del Diablo,
Mpio. Cintalapa de Figueroa, Chiapas, Mexico
- Aug. 15 16.95790°N, 93.97854°W [$\pm 9m$], 1182m elev.
SMR2178 Craugastor lineatus adult 2.0g RNALater-L 8/16/13
2179 Anolis barkeri adult ♂ 3.1g " "
- Aug. 16 2180 Sceloporus variabilis juv. 1.4g ♀ " "
- 5.5 Km WNW (by air) of Ejido Constitución, "
- Aug. 16 16.96532°N, 93.98568°W [$\pm 13m$], 1026m elev.
SMR2181 Craugastor lineatus adult RNALater-L 8/17/13
2182 " " adult " "
- 5.9 Km WNW (by air) of Ejido Constitución, "
- Aug. 16 16.96970°N, 93.98683°W [$\pm 9m$], 1025m elev.
SMR2183 Ecnemiohylla miotympanum adult ♀ RNALater-L 8/17/13
2184 Rana vallanti adult " "
2185 " juv. " "
2186 Craugastor alfredi adult " "
2187 " " adult " "
2188 Craugastor adult ♀ " "
2189 Incilius valliceps juv. " "
2190 Craugastor adult " "
- 4.4 Km ^{WNW} (by air) of Ejido Constitución, "
- Aug. 16 16.95790°N, 93.97854°W [$\pm 9m$], 1182m elev.
SMR2191 Sceloporus variabilis adult ♀ RNALater-L 8/17/13
2192 " juv. ♀ " "

1900

1900

1. The first part of the book is devoted to a general introduction to the subject of the history of the English language. It deals with the various influences which have shaped the language, and with the changes which have taken place in its pronunciation, grammar, and vocabulary. The author also discusses the importance of the English language in the world, and the role which it plays in the development of civilization.

2. The second part of the book is devoted to a detailed study of the history of the English language from the beginning of the 15th century to the present time. It deals with the various stages of the language, and with the changes which have taken place in its pronunciation, grammar, and vocabulary. The author also discusses the influence of the English language on other languages, and the role which it plays in the development of civilization.

3. The third part of the book is devoted to a study of the English language as it is used in the present day. It deals with the various uses of the language, and with the changes which have taken place in its pronunciation, grammar, and vocabulary. The author also discusses the influence of the English language on other languages, and the role which it plays in the development of civilization.

Rovito, Sean
2013

Catalogue

^{WN}
4.4 km^W (by air) of Ejido Constitución, Sierra Espinazo del Diablo,
Mpio. Cintalapa de Figueroa, Chiapas, Mexico

Aug. 17 16.95790°N, 93.97854°W [$\pm 9m$], 1182m elev.

SMR2193 Smilisca cyanosticta adult RNA Later-L 8/18/13

2194 Smilisca baudinii juv. 3g " "

2195 " " juv. 2g " "

2196 Bathrops asper juv. 25.5cm SVL 26g " "

^{WN}
5.0 km^W (by air) of Ejido Constitución, "

Aug. 15 16.96416°N, 93.98069°W [$\pm 9m$], 1122m elev.

SMR2197 Ninia sebae adult DOR no tissue, decapitated

^{WN}
4.4 km^W (by rd) of Ejido Constitución, "

Aug. 18 16.95790°N, 93.97854°W [$\pm 9m$], 1182m elev.

SMR2198 Lepidophyma tuxtlae adult ♀ RNA Later-L 8/18/13

6.2 km W (by rd) of center of Tapalapa on road to Coapilla, Mpio.
Tapalapa, Chiapas, Mexico

Aug. 20 17.18770°N, 93.12386°W [$\pm 10m$], 2221m elev.

SMR2199 Rhadinea cf. DOR juv. RNA Later-L 8/20/13

2200 Bolitoglossa hartwegi adult ♀ " hand slide

2201 " " stomach: 2 potato bugs juv. ♀ 0.7g RNA Later-L, I 8/21/13

2202 " " juv. 0.5g " "

2203 Craugastor ~~lineatus~~ 7.0g adult ♀ RNA Later-L 8/20/13

2204 Craugastor lineatus 9.1g adult ♀ " "

2205 " " 6.7g adult " "

2206 " " 7.5g adult " "

Rovito, Sean
2013

Catalogue

6.2 Km W (by rd) of center of Tapalapa on road to Coapilla, Mpio. Tapalapa,
Chiapas, Mexico

Aug. 20 17.18770°N, 93.12386°W [$\pm 10m$], 2221 m elev.

SMR 2207 Craugastor lineatus adult 4.9g RNALater - L 8/21/13

2208 Anolis hobartsmithi adult ♂ 3.6g " "

2209 " " adult ♀ 4.4g " "

2210 Cerrophidion godmani juv. 13.5g, 24.8cm SVL " "

2211 Mesaspis moreletii adult ♀ 6.6g " "

Aug. 21 2212 Boitoglossa hartwegi adult ♂ 1.1g, blood slide RNALater - L, I 8/22/13

2213 M. moreletii adult ♀ 6.2g RNALater - L 8/22/13

2214 " " juv. ♀ 1.9g " "

2215 " " juv. ♀ 1.7g " "

11.5 Km SW (by rd) of center of Tapalapa on road to Coapilla, Mpio. Coapilla, Chiapas,
Mexico

Aug. 21 17.16648°N, 93.14220°W [$\pm 8m$], 1897 m elev.

SMR 2216 Sphenomorphus cherriei adult ♀ 1.2g RNALater - L 8/22/13

25 Km N (by rd) of highway from Tapalapa to Pantepes on road to Mazana, Mpio. Tapalapa,
Chiapas, Mexico

Aug. 21 17.20646°N, 93.10312°W [$\pm 7m$], 1848 m elev.

SMR 2217 Plectrohyla ixil adult ♂ 5.1g RNALater - L 8/22/13

2218 " " adult ♂ 6.3g " "

2219 " " adult ♂ 3.6g " "

2220 Anolis hobartsmithi adult ♂ 2.9g " "

2221 " " adult ♂ 3.8g " "

2222 " " adult ♂ 3.5g " "

2223 " " adult ♂ 2.1g " "

2224 " " adult ♀ 3.1g " "

2225 " " adult ♀ 3.3g " "

Rovito, Sean
2013

Catalogue

1.7km N (by rd) of highway from Tapalapa to Pantepes on road to Mazam, Mpio. Tapalapa, Chiapas, Mexico

Aug. 21

17.20367°N, 93.10505°W [$\pm 8m$], 1836m elev.

SMR 2226 Bolitoglossa occidentalis adult ♂ 0.7g, blood slide RNA Later-L 8/22/13

2227 " " adult ♀ 1.1g, blood slide " "

2228 " " juv. " "

2229 Plectrohyla ixil adult ♀ 2.9g RNA Later-L 8/22/13

2230 " " adult ♀ 3.9g " "

2231 " " adult ♀ 9.9g " "

2232 Craugastor adult 1.7g " "

2233 " " adult 1.9g " "

2234 Anolis hobartsmithi adult ♂ 2.1g " "

2235 " " juv. ♂ " "

2236 " " juv. ♂ " "

2241 Craugastor loki adult 4.4g " "

8.0km SW (by rd) of Tapalapa on road to Coapilla, Mpio. Tapalapa, Chiapas, Mexico

Aug. 22

17.18205°N, 93.12086°W [$\pm 8m$], 2127m elev.

SMR 2237 Mesaspis moreletii adult ♀ 3.6g RNA Later-L 8/22/13

2238 Sceloporus internasalis adult ♀ 6.3g " "

2239 " " juv. 3.7g " "

6.2km W (by rd) of Tapalapa on road to Coapilla, Mpio. Tapalapa, Chiapas, Mexico

Aug. 22

17.18770°N, 93.12386°W [$\pm 10m$], 2221m elev.

SMR 2240 Sceloporus internasalis adult ♀ 15.75g RNA Later-L 8/22/13

Unit _____

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Rovito, Sean
2013

Catalogue

Aug. 22 6.2 Km W (by rd) of Tapalapa on road to Coapilla, Mpio. Tapalapa, Chiapas, Mexico
17.18770°N, 93.12386°W [$\pm 10m$], 2221m elev.
SMR2242 Bolitoglossa hartwegi adult ♂ 0.6g RNALater-L, I 8/23/13

Aug. 22 8.0 Km W (by rd) of Tapalapa on road to Coapilla, Mpio. Tapalapa, Chiapas, Mexico
17.18205°N, 93.12086°W [$\pm 8m$], 2127m elev.
SMR2243 B. ~~hartwegi~~ occidentalis adult 0.6g RNALater-L, I 8/24/13
2244 Craugastor lineatus adult 9.3g RNALater-L 8/24/13
2245 Craugastor lineatus adult 2.9g

Aug. 22 1.1 Km N (by rd) of highway from Tapalapa to Pantepéc on road to Mazón, Mpio. Tapalapa, Chiapas, Mexico
17.20367°N, 93.10505°W [$\pm 8m$], 1836m elev.
SMR2246 Cryptotriton alvarezdeltoroi adult ♂ 0.3g blood slide RNALater-L, I 8/23/13
2247 Bolitoglossa ~~hartwegi~~ occidentalis adult ♀ 0.8g blood slide "
2248 B. ~~hartwegi~~ occidentalis adult 0.7g "
2249 Bolitoglossa occidentalis adult 0.6g blood slide "
2250 " " adult 0.4g RNALater-L, I 8/24/13
2251 " " adult 0.4g "
2252 " " adult 0.4g "
2253 Plectrohyla irii adult ♂ 6.6g RNALater-L 8/24/13
2254 Craugastor adult 4.8g "
2255 " " adult 2.5g "
2256 " " adult ♀ 7.0g "
2257 Anolis hobartsmithi adult ♂ 2.6g RNALater-L, 8/23/13
2258 " " adult ♂ 3.1g "

The following table shows the results of the experiment.	
Time (min)	Distance (m)
0	0
10	1.2
20	2.4
30	3.6
40	4.8
50	6.0
60	7.2
70	8.4
80	9.6
90	10.8
100	12.0
110	13.2
120	14.4
130	15.6
140	16.8
150	18.0
160	19.2
170	20.4
180	21.6
190	22.8
200	24.0
210	25.2
220	26.4
230	27.6
240	28.8
250	30.0
260	31.2
270	32.4
280	33.6
290	34.8
300	36.0
310	37.2
320	38.4
330	39.6
340	40.8
350	42.0
360	43.2
370	44.4
380	45.6
390	46.8
400	48.0
410	49.2
420	50.4
430	51.6
440	52.8
450	54.0
460	55.2
470	56.4
480	57.6
490	58.8
500	60.0
510	61.2
520	62.4
530	63.6
540	64.8
550	66.0
560	67.2
570	68.4
580	69.6
590	70.8
600	72.0
610	73.2
620	74.4
630	75.6
640	76.8
650	78.0
660	79.2
670	80.4
680	81.6
690	82.8
700	84.0
710	85.2
720	86.4
730	87.6
740	88.8
750	90.0
760	91.2
770	92.4
780	93.6
790	94.8
800	96.0
810	97.2
820	98.4
830	99.6
840	100.8
850	102.0
860	103.2
870	104.4
880	105.6
890	106.8
900	108.0
910	109.2
920	110.4
930	111.6
940	112.8
950	114.0
960	115.2
970	116.4
980	117.6
990	118.8
1000	120.0

Rovito, Sean
2013

Catalogue

6.2 km W (by rd) of Tapalapa on road to Coapilla, Mpio. Tapalapa, Chiapas, Mexico
Aug. 23 17.18770°N, 93.12386°W [$\pm 10m$], 2221m elev.

SMR2259 Mesaspis moreletii adult ♀ 15.5g RNALater-L 8/23/13

2260 Craugastor lineatus adult ♀ 8.8g " "

2261 M. moreletii adult ♀ 8.4g " "

2262 Bolitoglossa cf hartwegi adult ♀ 2.3g ^{head} slide RNALater-LI 8/24/13

2263 " " adult ♀ 1.7g " "

2264 " " adult ♀ 2.0g " "

2265 " " adult ♂ 1.2g " "

2266 " " adult ♀ 1.3g " "

2267 Tropidodipsas fischeri adult ♀ 37g ^{51.7 cm SVL} RNALater-L 8/24/13

1.7 km N (by rd) of highway from Tapalapa to Pantepec on road to Mazono, Mpio. Tapalapa, Chiapas, Mexico

Aug. 23 17.20367°N, 93.10505°W [$\pm 8m$], 1836m elev.

SMR2268 Bolitoglossa ~~hartwegi~~ occidentalis adult ♀ 1.0g ^{blood} slide RNALater-LI 8/24/13

2269 B. occidentalis adult ♂ 0.6g " "

2270 Plectrohyla ixi adult RNALater-L 8/24/13

2271 Duellmanohyla chamulae juv. 0.9g " LI "

6.2 km W (by rd) of Tapalapa on road to Coapilla, Mpio. Tapalapa, Chiapas, Mexico
Aug. 24 17.18770°N, 93.12386°W [$\pm 10m$], 2221m elev.

SMR2272 Bolitoglossa cf hartwegi adult ♀ RNALater-L 8/24/13

2273 " " adult ♂ " "

2274 " " adult ♂ " "

Rovito, Sean
2013

Catalogue

San Francisco las Flores, 11.7 Km E (by rd) of highway from Huehuetenango to San Juan Ixcay, Mpio. San Juan Ixcay, Depto. Huehuetenango, Guatemala
Oct. 22 15.58016°N, 91.36866°W [$\pm 9m$], 1965m elev.
SMR2275 Anolis adult ♂ RNALater-L 10/23/13

6.7 Km W (by rd) of center of San Juan Ixcay on road to Cancicún, Mpio. San Juan Ixcay, Depto. Huehuetenango, Guatemala
Oct. 23 15.6034°N, 91.47045°W [$\pm 6m$], 2711m elev.
SMR2276 Bolitoglossa lincolni subadult RNALater-L, I 10/23/13
2277 " " subadult " "
2278 " " juvenile RNALater-L, I, T 10/23/13

5.8 Km W (by rd) of center of San Juan Ixcay " "
Oct. 23 15.60259°N, 91.47524°W [$\pm 6m$], 2649m elev. blood slide
SMR2279 B. lincolni adult ♂ RNALater-L, I 10/23/13

Puerto del Cielo, 14.4 Km W (by rd) of highway from San Juan Ixcay to Huehuetenango, Mpio. Todos Santos Cuchumatán, Depto. Huehuetenango, Guatemala
Oct. 23 15.55432°N, 91.60059°W [$\pm 6m$], 3311m elev.
SMR2280 Pseudoeurycea rex adult ♀ RNALater-L, I 10/23/13
2281 " " adult ♂ " "
2282 " " adult ♀ " "
2283 " " adult ♂ " "
2284 " " adult " "

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined on the interval $[0, 1]$. It is shown that $f(x)$ is continuous and differentiable on this interval. The derivative of $f(x)$ is given by the formula $f'(x) = 2x - 1$.

2. In the second part, we consider the function $g(x)$ defined on the interval $[0, 1]$. It is shown that $g(x)$ is continuous and differentiable on this interval. The derivative of $g(x)$ is given by the formula $g'(x) = 1 - 2x$. The functions $f(x)$ and $g(x)$ are related by the identity $f(x) + g(x) = 1$.

3. In the third part, we consider the function $h(x)$ defined on the interval $[0, 1]$. It is shown that $h(x)$ is continuous and differentiable on this interval. The derivative of $h(x)$ is given by the formula $h'(x) = 1 - 2x$.

4. In the fourth part, we consider the function $k(x)$ defined on the interval $[0, 1]$. It is shown that $k(x)$ is continuous and differentiable on this interval. The derivative of $k(x)$ is given by the formula $k'(x) = 1 - 2x$.

1. The first part of the paper is devoted to the study of the properties of the function $f(x)$ defined on the interval $[0, 1]$. It is shown that $f(x)$ is continuous and differentiable on this interval. The derivative of $f(x)$ is given by the formula $f'(x) = 2x - 1$.	2. In the second part, we consider the function $g(x)$ defined on the interval $[0, 1]$. It is shown that $g(x)$ is continuous and differentiable on this interval. The derivative of $g(x)$ is given by the formula $g'(x) = 1 - 2x$. The functions $f(x)$ and $g(x)$ are related by the identity $f(x) + g(x) = 1$.
3. In the third part, we consider the function $h(x)$ defined on the interval $[0, 1]$. It is shown that $h(x)$ is continuous and differentiable on this interval. The derivative of $h(x)$ is given by the formula $h'(x) = 1 - 2x$.	4. In the fourth part, we consider the function $k(x)$ defined on the interval $[0, 1]$. It is shown that $k(x)$ is continuous and differentiable on this interval. The derivative of $k(x)$ is given by the formula $k'(x) = 1 - 2x$.

5. In the fifth part, we consider the function $l(x)$ defined on the interval $[0, 1]$. It is shown that $l(x)$ is continuous and differentiable on this interval. The derivative of $l(x)$ is given by the formula $l'(x) = 1 - 2x$.

Rovito, Sean
2013

Catalogue

La Cumbre, 14.7 km (by rd) from CA-1 at El Repaso, high point on road
from El Paraíso to Hija Blanca, Montañas de Cuilco, Mpio.
Depto. Huehuetenango, Guatemala

Oct. 24 15.56129°N, 91.98414°W [$\pm 6m$], 2240m elev.

SMR 2285 Bolitoglossa lincolni adult ♀ RNALater-L, I 10/24/13

2286 Dendrobates rabbi adult ♂ " " 10/27/13
- blood slide

San Francisco el Retiro, 16.3 km N (by rd) from RN-7W from San
Idefonso Ixtahuacán to Cuilco, Montañas de Cuilco, Mpio. Cuilco,
Depto. Huehuetenango, Guatemala

Oct. 24 15.47991°N, 91.93076°W [$\pm 10m$], 2916m elev.

SMR 2287 Pseudoeurycea rex adult ♀ RNALater-L, I 10/24/13

Summit of Cerro Mozotal, Mpio. Motozintla, Chiapas, Mexico

Oct. 26 15.42643°N, 92.34133°W [$\pm 4m$], 3071m elev.

SMR 2288 Bolitoglossa franklini nigroflavescens adult ♂ RNALater-L, I 10/27/13

2289 " " subadult " "

2291 Pseudoeurycea cf rex adult ♀ " "

- found in log guarding clutch of eggs; eggs preserved in 10% formalin

0.5 km WNW (by air) of summit of Cerro Mozotal, Mpio. Motozintla, Chiapas, Mexico

Oct. 26 15.42787°N, 92.34554°W [$\pm 9m$], 2918m elev.

SMR 2290 Pseudoeurycea cf goebeli adult ♂ RNALater-L, I 10/27/13

2292 Pseudoeurycea cf rex adult " "

2293 " " adult " "

2294 " " adult ♂ " "

2295 " " adult ♂ " "

2296 " " adult " "

Blood slides of 2292-2293

English

1. The first part of the lesson is a short story about a boy who likes to play football.	
2. The second part is a grammar exercise about the present simple tense.	
3. The third part is a writing exercise where students write a short paragraph about their favorite sport.	
4. The fourth part is a listening exercise where students listen to a short audio clip and answer questions.	
5. The fifth part is a reading exercise where students read a short text and answer questions.	
6. The sixth part is a speaking exercise where students discuss their favorite sport with a partner.	
7. The seventh part is a grammar exercise about the past simple tense.	
8. The eighth part is a writing exercise where students write a short paragraph about their favorite food.	
9. The ninth part is a listening exercise where students listen to a short audio clip and answer questions.	
10. The tenth part is a reading exercise where students read a short text and answer questions.	
11. The eleventh part is a speaking exercise where students discuss their favorite food with a partner.	
12. The twelfth part is a grammar exercise about the future simple tense.	
13. The thirteenth part is a writing exercise where students write a short paragraph about their future plans.	
14. The fourteenth part is a listening exercise where students listen to a short audio clip and answer questions.	
15. The fifteenth part is a reading exercise where students read a short text and answer questions.	
16. The sixteenth part is a speaking exercise where students discuss their future plans with a partner.	
17. The seventeenth part is a grammar exercise about the conditional tense.	
18. The eighteenth part is a writing exercise where students write a short paragraph about their conditional plans.	
19. The nineteenth part is a listening exercise where students listen to a short audio clip and answer questions.	
20. The twentieth part is a reading exercise where students read a short text and answer questions.	
21. The twenty-first part is a speaking exercise where students discuss their conditional plans with a partner.	
22. The twenty-second part is a grammar exercise about the passive voice.	
23. The twenty-third part is a writing exercise where students write a short paragraph about their favorite place.	
24. The twenty-fourth part is a listening exercise where students listen to a short audio clip and answer questions.	
25. The twenty-fifth part is a reading exercise where students read a short text and answer questions.	
26. The twenty-sixth part is a speaking exercise where students discuss their favorite place with a partner.	
27. The twenty-seventh part is a grammar exercise about the infinitive form.	
28. The twenty-eighth part is a writing exercise where students write a short paragraph about their favorite hobby.	
29. The twenty-ninth part is a listening exercise where students listen to a short audio clip and answer questions.	
30. The thirtieth part is a reading exercise where students read a short text and answer questions.	
31. The thirty-first part is a speaking exercise where students discuss their favorite hobby with a partner.	
32. The thirty-second part is a grammar exercise about the gerund form.	
33. The thirty-third part is a writing exercise where students write a short paragraph about their favorite season.	
34. The thirty-fourth part is a listening exercise where students listen to a short audio clip and answer questions.	
35. The thirty-fifth part is a reading exercise where students read a short text and answer questions.	
36. The thirty-sixth part is a speaking exercise where students discuss their favorite season with a partner.	
37. The thirty-seventh part is a grammar exercise about the participle form.	
38. The thirty-eighth part is a writing exercise where students write a short paragraph about their favorite time of day.	
39. The thirty-ninth part is a listening exercise where students listen to a short audio clip and answer questions.	
40. The fortieth part is a reading exercise where students read a short text and answer questions.	
41. The forty-first part is a speaking exercise where students discuss their favorite time of day with a partner.	
42. The forty-second part is a grammar exercise about the relative clause.	
43. The forty-third part is a writing exercise where students write a short paragraph about their favorite person.	
44. The forty-fourth part is a listening exercise where students listen to a short audio clip and answer questions.	
45. The forty-fifth part is a reading exercise where students read a short text and answer questions.	
46. The forty-sixth part is a speaking exercise where students discuss their favorite person with a partner.	
47. The forty-seventh part is a grammar exercise about the noun clause.	
48. The forty-eighth part is a writing exercise where students write a short paragraph about their favorite animal.	
49. The forty-ninth part is a listening exercise where students listen to a short audio clip and answer questions.	
50. The fiftieth part is a reading exercise where students read a short text and answer questions.	
51. The fifty-first part is a speaking exercise where students discuss their favorite animal with a partner.	
52. The fifty-second part is a grammar exercise about the adjective clause.	
53. The fifty-third part is a writing exercise where students write a short paragraph about their favorite color.	
54. The fifty-fourth part is a listening exercise where students listen to a short audio clip and answer questions.	
55. The fifty-fifth part is a reading exercise where students read a short text and answer questions.	
56. The fifty-sixth part is a speaking exercise where students discuss their favorite color with a partner.	
57. The fifty-seventh part is a grammar exercise about the prepositional phrase.	
58. The fifty-eighth part is a writing exercise where students write a short paragraph about their favorite place to visit.	
59. The fifty-ninth part is a listening exercise where students listen to a short audio clip and answer questions.	
60. The sixtieth part is a reading exercise where students read a short text and answer questions.	
61. The sixty-first part is a speaking exercise where students discuss their favorite place to visit with a partner.	
62. The sixty-second part is a grammar exercise about the infinitive phrase.	
63. The sixty-third part is a writing exercise where students write a short paragraph about their favorite food to eat.	
64. The sixty-fourth part is a listening exercise where students listen to a short audio clip and answer questions.	
65. The sixty-fifth part is a reading exercise where students read a short text and answer questions.	
66. The sixty-sixth part is a speaking exercise where students discuss their favorite food to eat with a partner.	
67. The sixty-seventh part is a grammar exercise about the gerund phrase.	
68. The sixty-eighth part is a writing exercise where students write a short paragraph about their favorite sport to play.	
69. The sixty-ninth part is a listening exercise where students listen to a short audio clip and answer questions.	
70. The seventieth part is a reading exercise where students read a short text and answer questions.	
71. The seventy-first part is a speaking exercise where students discuss their favorite sport to play with a partner.	
72. The seventy-second part is a grammar exercise about the participle phrase.	
73. The seventy-third part is a writing exercise where students write a short paragraph about their favorite time of year.	
74. The seventy-fourth part is a listening exercise where students listen to a short audio clip and answer questions.	
75. The seventy-fifth part is a reading exercise where students read a short text and answer questions.	
76. The seventy-sixth part is a speaking exercise where students discuss their favorite time of year with a partner.	
77. The seventy-seventh part is a grammar exercise about the noun phrase.	
78. The seventy-eighth part is a writing exercise where students write a short paragraph about their favorite season of the year.	
79. The seventy-ninth part is a listening exercise where students listen to a short audio clip and answer questions.	
80. The eightieth part is a reading exercise where students read a short text and answer questions.	
81. The eighty-first part is a speaking exercise where students discuss their favorite season of the year with a partner.	
82. The eighty-second part is a grammar exercise about the adjective phrase.	
83. The eighty-third part is a writing exercise where students write a short paragraph about their favorite place to live.	
84. The eighty-fourth part is a listening exercise where students listen to a short audio clip and answer questions.	
85. The eighty-fifth part is a reading exercise where students read a short text and answer questions.	
86. The eighty-sixth part is a speaking exercise where students discuss their favorite place to live with a partner.	
87. The eighty-seventh part is a grammar exercise about the prepositional phrase.	
88. The eighty-eighth part is a writing exercise where students write a short paragraph about their favorite hobby to do.	
89. The eighty-ninth part is a listening exercise where students listen to a short audio clip and answer questions.	
90. The ninetieth part is a reading exercise where students read a short text and answer questions.	
91. The ninety-first part is a speaking exercise where students discuss their favorite hobby to do with a partner.	
92. The ninety-second part is a grammar exercise about the infinitive phrase.	
93. The ninety-third part is a writing exercise where students write a short paragraph about their favorite food to eat.	
94. The ninety-fourth part is a listening exercise where students listen to a short audio clip and answer questions.	
95. The ninety-fifth part is a reading exercise where students read a short text and answer questions.	
96. The ninety-sixth part is a speaking exercise where students discuss their favorite food to eat with a partner.	
97. The ninety-seventh part is a grammar exercise about the gerund phrase.	
98. The ninety-eighth part is a writing exercise where students write a short paragraph about their favorite sport to play.	
99. The ninety-ninth part is a listening exercise where students listen to a short audio clip and answer questions.	
100. The hundredth part is a reading exercise where students read a short text and answer questions.	

Rovito, Sean
2013

Catalogue

1.3 km NE (by rd) of Summit of Cerro Mozotal, on road to Motozintla,
Mpio. Motozintla, Chiapas, Mexico

Oct. 26 15.42877°N, 92.33919°W [± 10 m], 2950 m elev.

SMR2297 Bolitoglossa franklini nigroflavescens subadult RNA Later-L, I 10/27/13
- blood slide

15.3 km NW (by rd) of MX Hwy 211 on road to El Porvenir, Mpio.
Motozintla, Chiapas, Mexico

Oct. 26 15.38686°N, 92.32733°W [± 6 m], 2345 m elev.

SMR2298 Plectrohyla lacertosa adult ♂ RNA Later-L 10/26/13

2299 " " adult ♂ RNA Later-L 10/27/13

2300 " " adult ♂ RNA Later-L 10/26/13

0.7 km N (by rd) of edge of Colonia Talquian, SE slope of Volcán
Tacaná, Mpio. Unión Juárez, Chiapas, Mexico

Oct. 27 15.09632°N, 92.08459°W [± 6 m], 1863 m elev.

SMR2301 Plectrohyla matudai adult ♂ RNA Later-L 10/27/13

2302 " " adult ♂ " "

2303 " " adult ♂ " "

2304 Anolis adult ♂ " "

1.4 km SW of El Boqueron school near Pajopon, Esquipulas Palo Gordo,
Mpio. San Marcos, Depto. San Marcos, Guatemala

Oct. 28 14.93733°N, 91.84283°W [± 8 m], 2483 m elev.

SMR2305 Bolitoglossa franklini x lincolni (?) adult ♂ RNA Later-L, I 10/31/13
- blood slide

Rovito, Sean
2013

Catalogue

6.0 km NW (by rd) of center of Ixchiquan on road to Tacaná, Mpio.
Ixchiquan, Depto. San Marcos, Guatemala

Oct. 29 15.17189°N, 91.96672°W [$\pm 5m$], 3395m elev.

SMR2306 Pseudoeurycea rex adult ♂ RNA Later-L, I 10/31/13

2307 " " juvenile " "
- blood slide of SMR2306 + CRVA 3388

Refugio del Quetzal, 19.2 km SW (by rd) of center of San Marcos on
road to San Rafael Pie de la Cuesta, Mpio. San Rafael Pie de la Cuesta,
Depto. San Marcos, Guatemala

Oct. 29 14.94134°N, 91.87136°W [$\pm 16m$], 1816m elev.

SMR2308 Bolitoglossa flavimembris juvenile RNA Later-L, I 10/31/13

2309 Plectrohyla hartwegi adult ♀ RNA Later-L 10/31/13

2310 " " subadult " "

2311 Plectrohyla sagorum adult ♂ " "

2312 Plectrohyla matudai adult ♀ " "

2313 Craugastor stuarti adult " "

0.4 mi W (by rd) of US Hwy 101 on Salmon Creek Rd,
Humboldt Co., CA

Dec. 1 40.24483°N, 123.83340°W [$\pm 8m$], 38m elev.

SMR2314 Aneides lugubris juv. tail-frozen 12/4/13

2315 Aneides flavipunctatus adult RNA Later-L 12/4/13

2316 Ensatina eschscholtzii oregonensis subadult " "

- SMR2314 escaped, dried out on 12/3/13. Rehydrated in
soapy water before tussing

Handwritten text in Arabic script, appearing to be a list or a series of notes. The text is written in a cursive style and is somewhat faded. It seems to contain several lines of text, possibly organized into a list or a series of paragraphs. The text is written in a cursive style and is somewhat faded.

Handwritten text in Arabic script, continuing from the previous section. It appears to be a continuation of the list or notes. The text is written in a cursive style and is somewhat faded. It seems to contain several lines of text, possibly organized into a list or a series of paragraphs. The text is written in a cursive style and is somewhat faded.

Rovito, Sean
2013/2014

Catalogue

Corner of Berkeley Way and Grant Street, Berkeley, Alameda Co.,
CA, USA

Dec. 4 37.87227°N, 122.27504°W [± 10 m], 37m elev.

SMR2317 Aneides lugubris adult ♂ RNALater-L 12/5/13
-collected by Phillip Skipworth, died overnight

Rowdy Creek Rd., 0.9mi E (by rd) of Hwy 101 at Smith River,
Del Norte Co., CA

Dec. 27 41.92808°N, 124.12694°W [± 4 m], 14m elev.

SMR2318 Rhyacotriton variegatus adult ♂ RNALater-L, I 12/31/13

2319 Ensatina eschscholtzii picta adult ♂ RNALater-L, I 1/23/13
Ke took brain, testes

2320 Batrachoseps attenuatus adult RNALater-L, I 12/31/13

2321 Plethodon elongatus juv. " "

↑
2013
2014
↓

0.3mi S (by rd) of Table Bluff County Park on Table Bluff Rd.,
Humboldt Co., CA

Feb. 8 40.69283°N, 124.27447°W [± 5 m], 22m elev.

SMR2322 Ensatina eschscholtzii subadult RNALater-L, I 2/11/14

2323 Batrachoseps attenuatus adult " "

2324 " " adult " L, I, T "

2325 Pseudacris regilla adult ♀ RNALater-L 2/11/14

2326 " " adult ♂ " "

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Sean M. Rovito

2013

Journal

Guatemala: Huehuetenango,
San Marcos, Santa Rosa, Solola

Mexico: Chiapas

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June 3

San Francisco el Retiro, Montañas de Cincos, Depto. Huehuetenango, Guatemala (cont.)
... I have cut tons of trees here and there are lots of piles of boards + sawdust. These looked ideal for Salamanders but we saw none. It started to rain around 13:15 so we came back, ate + pressed specimens. At 20:15, we walked out on the main road to the big grassy open area along the road to the town of San Francisco el Retiro. It had stopped raining around 19:00 after raining quite hard most of the day. I went down into a sinkhole ~ 45m deep with mossy wet rock walls + found a big adult Pseudoeurycea in a crack. Should be P. rex here, but it has a lot of brown at the tail and a very light yellow region. We found another 7-8 sinkholes, some really deep and all in the middle of the grassy field. Many had a deep hole at the bottom where water drains. Carlos + Jacobo got 4 more Pseudoeurycea and a Sceloporus in one, and I got a B. rex. We went back to camp at 23:00 after exploring all the ones we found. I was surprised to see Guatemalan Pseudoeurycea in a cave-like habitat, especially without any trees around. The evening was cloudy and cool, with a low of perhaps 10°-12°C.

June 4

Two guides from town joined us at 06:30 ready to ~~start~~ work; we had been told no one would be helping us. After they helped put in pitfall traps for shrews, they led us to a big cave ~ 25 min from camp. It had a moderately large entrance w/ a steep slope down to a single big room w/ lots of dripping water and beautiful rock formations. They call it Cueva de Sepultura. We found nothing inside. We walked back to the highway + got a few Sceloporus.

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Journal

June 4

San Francisco de Asís, Montañas de Cule, Depto. Huachiranga, Guatemala (cont)

... in some of the many logs we opened. Much of the habitat was regenerated pine forest. We went to three more small caves close to camp but they were dry and we had fire damage from people living in it. Had lunch after searching from 10:15-12:15, then went back out from 14:15-16:15. Walked ~10 min to a beautiful forest w/ huge fir and cypress trees as well as some oak and opened bromeliads, all of which had tons of water. Carlos got a Hemidactylus after we opened ~50 bromeliads. I got a P. rex in a rotten log. Lots of moss in this area + still much damaged wood from past logging; great for salamanders. After dinner, went back to Cueva La Sepultura w/ mammal team, who had put bat nets up there, around 20:15. Got 2 Pseudoeurycea on mossy walls at the cave entrance but nothing inside. Explored 3 sinkholes and searched a bit as it started to rain. Attempted to reach forest where we were this afternoon but got very lost + wandered around for an hour; Jacobo got a Cerophidion. Got our bearings w/ the help of the GPS and visited one of the small caves on the way back to camp, where Jacobo got another Cerophidion. Got back at 00:00, very wet + tired.

June 5

Rained all night, stopped at 07:30. Got up and prepped specimens in the morning. After lunch, searched for 2 hours (14:00-16:00) in bromeliads in same forest where we got a P. rex + a Hemidactylus yesterday. Used the bromeliad cutter to reach higher bromeliads + got 7 Hemidactylus out of the first 20-25 bromeliads we opened.

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June 5

San Francisco Retiro, Montañas de Culebr, Depto. Huachucan, Guatemala (cont)
... Four were from the same pine tree and two from the same branch. In total, we opened 50 branchlets but got most salamanders right at the beginning. Started to rain at 16:00 so we went back to camp, took photos, prepped specimens, + made dinner. At 21:15, walked out to sinkholes (sinks) where we found 1. seen two nights ago. Found 1 more in one sinkhole and 9 in another, where Carlos Jacobo had collected 4 (only took 2 of the 9). Several salamanders were well inside part of the sinkhole that formed a cave. Only took a few so as not to harm population. Walked back towards camp in a mist and searched for ~30 min in a nice, mossy forest w/ big trees but saw nothing. Got back to camp at 22:45. Weather was cool today, high around 22°C.

June 8

Cerro Cruz Malin, Sierra de los Cuchumatanes, Depto. Huachucan, Guatemala
On June 6, we packed up camp and drove to Barillas in the rain. Yesterday, we left Barillas with Luis and ~~the~~ chuan from FUNDAECO, plus two Quibecois botany students. Drove 5 from Barillas to the Rio Quibec below the village of ~~the~~ where the road ends. Got 7 mules to carry our stuff up to the small community of La Guindina, where FUNDAECO has a house. We had dropped off Jorge Evario Lopez + Ericka in Huehuen and picked up Rodolfo Lima + Andres. It was a steep, rather difficult hike up; I did it in 1.5 hrs, some people took up to 3. Started at 500m and went up to 1200m, in the sun. Andrea arrived feeling unwell, and we spent the night in the village. In the morning, Andrea...

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Journal

Cerro Cruz Malin, Sierra de las Cuchumatanes, Depto. Huehuetenango, Guatemala (cat)
June 8 Tried to walk up to the forest but felt too sick + went back to La Graciosa w/ Rodolfo, where she was treated for amebias at the clinic. The rest of us (and the mules), plus two men from the village, did a fairly easy, 1 hr walk up to the edge of the forest at 1750m. About halfway up, started to see bromeliads, tree ferns, + other cloud forest plants. Arrived at the forest edge + had to clear thick brush for camp, since only cleared areas were corn fields. It had been cloudy in the morning, and started to rain around 16:00, so we waited until night to search. We all started searching in the forest at 20:30. Lots of really big broadleaf trees, tree ferns, big bromeliads, and a fairly thick understory - really nice cloud forest, appears largely undisturbed. Carlos + I each found a Craugastor almost immediately. He ~~and~~ and Jacobo went back at 21:30 and I continued uphill. Found a Plectrohyla on vegetation, 3 Bolitoglossa cuchumatana (1 on ground, 2 on veg), and a male Anolis w/ a purple dewlap. Heard a hybrid w/ a different call but couldn't find it. Followed main trail up to 1990m elev, turned back at 00:05. Walked back slowly, arriving in camp at 01:00, by which time rain had stopped. It was cool, maybe around 20°C; a perfect night for amphibians.

June 9 Went up to forest this morning w/ Carlos and searched 10:15 - 13:30. I walked up to 2100m on one trail and saw only a big Craugastor. Carlos got a Dryadophis out foraging just above camp and 15 B. cuchumatana in bromeliads around 1900-1950m elev. Carlos went up to 2200m on another trail and saw a quetzal + 2...

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June 9 ~~Cerro Cruz Matlin, Sierra de las Cuchumatanes, Depto. Huehuetenango, Guatemala (alt)~~
... horned guans. The forest higher up has some bamboo, Clusia, and a fair number of bromeliads on big broadleaf trees. Carlos said it flattens out around 2200m. We came back to camp and prepped specimens while it rained in the afternoon. Luis and Julio brought us 3 more Graugaster. Stopped raining around 6PM. I took a nap after dinner and ended up just falling asleep. Carlos + Jacobo walked back into the forest + searched from ~21:00 - 00:30. They found 5 Graugaster (I think all the ones we've gotten are the same species - C. chae?) and 1 Bolitoglossa cuchumatana.

June 10 Searched from 09:45 - 10:45 in a secondary forest below camp. Found nothing; I think it's pretty isolated by cornfields + scrub vegetation to have many herps. Prepped specimens, then rested briefly. At 15:30, started uphill toward high point of this area. I opened perhaps 10 bromeliads along the way + got a B. cuchumatana. Around 2200m, the forest has some bamboo and Clusia, and ca. 50m above that bromeliads disappear (almost) and tree ferns abound. At the top (2300m), the trees are huge and everything is covered in moss. We arrived around 18:00 and rested for ~30 min. At 18:30, we started to look w/ lights, and it was completely dark by 19:00. We searched until 20:00 at the top; Carlos got 2 B. cuchumatana while Jacobo + I saw nothing. There is a sea of moss here; looks great for salamanders but hard to find. On the way down, I got a B. cuchumatana and a B. hartwegi, both on leaves. We arrived at camp at 21:45. It rained sporadically in the afternoon but the night was clear and starry.

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 والهدى إلى صراط مستقيم
 اللهم صل على سيدنا محمد
 وعلى آله وصحبه أجمعين
 وسلم

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 وسلم

Kooto, Sean
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Journal

June 11

Cerro Matán, Sierra de las Cuchumatanes, Depto. Huehuetenango, Guatemala

When I woke up, Luis told me that from where we climbed to yesterday, one can walk down 200m in elevation, then up again to 2900m elevation. The high point is another 2-3 hrs from where we were. He went off w/ the Canchins and we prepped specimens. Decided to try to get higher in elevation, but Luis wasn't around to guide us. Started up

at 12:30, reached high point at 13:50. Continued on a path downward, but once we were 300m down, we realized it went much lower than we wanted to go. Climbed back up the steep hill. At the top, I saw a toucan (*Eira barbara*). A train along the path toward me and got ~3m away before it saw me and hopped into the vegetation. It started to rain; rain lasted ~40 min. We couldn't find another path & decided to return to camp, arriving around 17:00. It rained heavily for ~30 min during dinner.

Carlos, Jacobo, Luis, & I went down to the small stream 5 min SE of camp and searched in vegetation for ~30 min for frogs. Heard 1 *Plectrohyla* ixil call but found nothing. Walked on path towards La Grindina and searched in secondary forest. I searched for ~45 min before returning to camp & found nothing; the others stayed out for 1.5 hrs & found a *Bolitoglossa rufescens* on vegetation. The night was clear & fairly warm.

June 15

Volcan Tecunumburro, Depto. Santa Rosa, Guatemala

On June 12, packed up camp & walked to La Grindina. Got 1 *B. rufescens* in a banana plant. Woke up at 05:00 on June 13, hiked out and drove to Huehuetenango. Drove to Guatemala the next day and spent the night. Today, drove to Volcan Tecunumburro, after...

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Journal

Volcan Teacapulco, Depto. Santa Rosa, Guatemala (cont.)

June 15

... meeting everyone at the museum. Same team as before, except Andrea + Ericka switched. Got to Finca Linda Vista around 13:30 and set up camp above soccer field next to geothermal area. Rained hard for ~90 min. I went out after rain to check out a lagoon the finca owner told us about. There were actually two, surrounded by 2m high grass and covered in vegetation with almost no water free of vegetation. After dinner, we walked to a wet spot on the edge of the geothermal area at 20:45 and tried to find Leptodactylus fragilis that were calling in the grass (failed). Julio got a juvenile Rana. Walked down to the lagoons. I saw either a Rana or Bufo in the small one; the larger swampy area was completely impenetrable. Heard no frogs calling in either. On the road back, Carlos got another juvenile Rana + I got an Agalychnis moreletii. Walked out to the main road, where Carlos + Jacobo got 3 more Rana. Tried to get to a washing area w/ a stream that we passed through on the way here, but there were too many dogs barking. Stopped searching at 23:15. The day was warm, around 24°C, and the night was cloudy and cooler.

June 16

Woke up rather late so we ~~would~~ would have more energy for night searching. Carlos + I explored down a path near camp for ~~an~~ hr in the morning. Found 2 small canyons/streams, one w/ lots of Heliconia + one w/ what looked like a stream that flows w/ rain but is now almost entirely dry. After that, went to search uphill in the forest but ended up helping the ornithologists, who were overwhelmed w/ birds in their nets. Started to rain just as we got down, ...

Porto, Sao
2013

Journal

Near Jacupiranga, Dept. Santa Rosa, Acre (cont.)

... around 15:00. Rapped frogs + a bird in the afternoon while it rained. After dinner, we started up towards the summit of the volcano at 19:30. I got an Andis crassulus about $\frac{1}{3}$ of the way up. At the same point (roughly) where we found salamanders last time, I got a Bolitoglossa on a tree trunk. This is where bromeliads start to appear and the forest more closely resembles a cloud forest. Got a big female Bolitoglossa on a leaf, farther up the path, by far the largest individual we've found, as well as another on a tree trunk and a second A. crassulus. Carlos + Jacobo went to the top but found nothing. We started back at 22:00, arriving around 22:40. At 23:40, Carlos went out into the cañal to look for frogs. He searched until 00:40 and found a male Agalychnis moreletii (saw 2 females), a Amphispiza bilineata, and two juvenile Rana. Jacobo + I took the path downhill into the forest where Carlos + I went this morning. Searched until 01:10; I found a Cryptotriton percarinatus on the trunk of a pine tree.

June 17 Carlos + I spent an hour or so this morning trying to catch Sceloporus w/ rubber bands on boulders after the sun came out. We got none, but I did see a Melanozamia unimarginata that ran under a rock. After lunch, we took the truck to a spot 1.8 Km from the main highway to Chiguimilla and searched in logs in a cañal from 13:30-14:50. I got a Tilia sebae in a big log and 3 Bufo excrucians near a small pond and stream. Carlos got a Stenomorphus assatus. I was hoping to find an Oedipina taylori; the habitat looks really good for Oedipina. Looked in banana plants in a cañal on the...

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Nación Tacuamburro, Depto. Santa Rosa, Guatemala
June 17 ... way back but found nothing. Rained hard for about an hour before dinner. After dinner, I made a futile attempt to collect calling Leptodactylus in the wet area near camp. We drove back to the cafetal where we searched near the highway and looked from 21:20 - 22:10. I collected a Leptodeira on a branch above a pond w/ tons of Agalychnis moreletii and some Bufo ^{canaliferus} calling; also saw a Rana. Didn't collect frogs since we'll have very limited prep time before leaving. I got a small Craugastor calling on a leaf as well. Carlos got 1 Anolis and 2 Ptychocheilus euthysanota, and Jacobo got another Anolis, a Bufo coccifer, and a Aphronorphus. I am surprised by the lack of Arauc here. Heard some Smilisca calling from the car. The night was warm & cloudy; maybe around 20°C

Species list for site:

Bolitoglossa sp.

Ptychocheilus euthysanota

Smilisca baudini

Agalychnis moreletii

Craugastor

Rana maculata?

Leptodactylus fragilis (heard calling)

Bufo canaliferus

Anolis crassulus

Anolis macrophallus

Sceloporus ~~sp.~~ (seen)

Mabuya unimarginata (seen)

Cryptotriton percarinatus

Aphronorphus assatus

Ninia sebae

Leptodeira annulata

Ceratophora godmani
(seen by Jerome)

Kovits, Sean
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Journal

Aug. 14

Ejido Constitución, Sierra Espinosa del Diablo, Chiapas, Mexico

I left Mexico City on July 12 w/ Zach Hanna + Anna Hiller from Berkeley, Jorge Sanchez Solis + Omar Becerra from the Instituto de Biología, and Marco Ortiz, Hector Olguin, and Hector Cuytano from the Facultad de Ciencias, UNAM. We spent the night in Acapulcan, drove to Justita the next morning + met Sergio Perez, who had come by bus from Guatemala. Spent night in Catalepa. Drove to Ejido Constitución the next morning on dirt road to Sayula, Veracruz that passes to the South of the Sierra Espinosa del Diablo. Arrived around 11:30, and waited until 4 PM for the guides to round up mules (8). Walked 4.4 km W out of town uphill to a point at ~1200m from which the path continues down. The mules left our stuff here and we quickly set up camp in what looks like a highly disturbed primary broadleaf rainforest. Lots of palms + Heliconia but also some very big trees. This morning, woke up somewhat late, worked on getting camp set up, then went down the path further, which passes into scrub vegetation, then pasture, and finally reaches a ranch. Past the ranch, we started searching in a cañal at 12:00. Omar found a Microtus elegans in a log and I found a Bolitoglossa rufescens under a piece of bark next to a log on the edge of some secondary forest. We walked into the forest uphill from the path, which quickly turned into nice primary forest. Some very big trees w/ a relatively sparse understory. I got a B. rufescens inside the hollow center of a Cecropia log on the edge of the good forest and found a Lepidophyma tuxtlae under a log.

Kaito, Sean
2013

Journal

Aug. 14 Ejido Constitución, Sierra Esmeraldas del Huasteco, Chiapas, Mexico (cont.)
... I found a Gerrhonotus loki, as did Omar + Jorge. Continued up until 1215m, where the forest ends and had clearly been burned in the past; really high grass w/ more forest visible on ridge. On the way down, they got another C. loki and an Anolis. Stopped searching at 15:30, back in camp at 16:30. I felt sick + laid down after a late lunch. Eventually, went out to rove + found a Rhinella marina + a C. loki. At 20:40, we started back toward ranch looking for frogs along road, streams, + in cattle ponds. In one pond I got 4 Amphibia cynosticta and 3 Rana (of 2 species, I think), plus 3 R. marina and a C. loki nearby (they got another C. loki). Went up a stream that entered into what looked like good forest in the dark + walked until we got to a waterfall that had mossy walls and looked ideal for frogs; found only 2 sleeping foliage gleaners. On the way down, got a tiny hybrid metamorph. It started to pour so we returned to camp, picking up 2 Amphibia bandirini of the many we heard calling. After a late dinner, Jorge + Omar fixed a leak in their tent while I went out in a very heavy rain to the forest just across the path from our tents, which is in good shape. Searched from 00:30-01:30 and got 3 B. rufescens on leaves, a sleeping Anolis, a C. loki, and a beautiful adult Anotheca spinosa on a leaf 1m off the ground. Not sure if this species is known from the Chiapas. Was completely soaked + it continued to rain hard, so I went to bed!

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Ejido Constitución, Sierra Espinosa del Diablo, Chiapas, Mexico

Aug. 15

We spent nearly all day prepping specimens; didn't finish w/ all of them. After dinner, waited for the rain to calm down, then went out to search from 21:30 - 23:30. Hector Cayetano joined us. I immediately got 5 B. rufescens on palm leaves. Omar got an adult male Arctia w/ a red-orange dorsum. Between the 3 of them, they got 4 more B. rufescens, a C. loki, a Crangaston that looks a bit different (wider to pads). Jorge found two B. platylactyla climbing on vegetation, including a big adult. I was confused about these at first; there is a record from El Oco but we're at the edge of their distribution here, it began to rain extremely hard and we decided to return to camp.

Aug. 16

We spent the morning and part of the afternoon prepping animals. At 18:00, walked downhill past ranch on path to a more distant ranch. Had rained hard for ~2 hrs earlier and we had waited for it to clear up; was cool and cloudy when we left. Omar found a Crangaston loki in a cafetal on the way down, and I got another at night on the way back. Below the cafetal, around 1000m, the forest changes to true lowland rainforest w/ enormous buttressed trees and an understory dominated by palm (Astrocadiium mexicanum). We passed a nice stream and arrived at a cleared area, w/ tons of logs, where we searched until dark (19:50). I found an Ecnomischia neotympanus on a Heliconia leaf on the edge of the forest and a Rana by the stream (Jorge Omar got another Rana). In the cleared area, I got a

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Harlow, Sean
2013

Journal

Aug. 16

Ejido Constitución, Sierra Espinosa del Diablo, Chiapas, Mexico (cont.)
... juv. Chalcidius palliceps and a Craugastor loki. There was an enormous tree w/ a cave-like entrance to a huge hollow interior w/ lots of fungus inside (super cool). I got 2 C. alfredi climbing up the buttresses of the outside of the tree; one was ~2m off the ground on a vertical surface. Have never seen Craugastor climb - looks like the big tree pods work. Walked back slowly, arriving in camp at 23:30; I saw a B. rufescens and a couple Craugastor loki (didn't collect) while Jorge + Omar saw nothing more. One of the guys from the ranch had joined us but saw nothing all night. It was louder + misty by the time we got back.

Aug. 17

Woke up late; after lunch, got ready to search but rain threatened so we prepped specimens. Started to rain heavily in afternoon, stopped after dinner. We searched from 21:15 - 00:15 in forest across path from camp. I got 2 Dinobirdia baudinii + 1 D. cyanosticta on leaves + saw 5 B. rufescens. Jorge + Omar got a juvenile Batrachoseps asper (I think) and saw a few more B. rufescens; also saw 2 ~~thrinella~~ thrinella on the road. It was drizzling and foggy while we searched and rained briefly; not much activity so we gave up.

Kanto, Sean
2013

Journal

High point on road from Coapilla to Tapalapa, Chiapas, Mexico
Aug. 20 On Aug. 18, we packed up our camp, hiked out and spent the night in Cintalapa. Yesterday, we picked up Gabriela Parra at the Tuxtla airport, stopped for food in Tuxtla, and drove N towards Tapalapa. On road from Copinalá to Coapilla, vegetation turns to very open oak forest (due to wood cutting, undoubtedly) and near Coapilla it changes to pine-oak forest. There is a microwave/radio antenna station with a fairly large cloud forest patch (~40ha) below it; otherwise, forest here is mostly gone. I spent the night in Tapalapa at cool, cheap hotel (Posada Nuevo del Intero) and got permission to work in forest reserve. This morning, drove to antennas to set up camp along a dirt service road. Had breakfast in Coapilla and got permission to work in pine-oak forest. Once camp was set up, a really bad thunderstorm hit and I took a nap. Sergio got a POR juvenile Thalassia + we caught a Cerrapichia that came out of the rain under our work tarp. Our camp is on the edge of a small cloud forest fragment above the road. At 21:00, Haby, Jorge, Omar, + I went on a nice path through the cloud forest reserve below the road and searched until 23:00. From what I could see, forest is nice + in really good shape; big trees, tons of epiphyte growth (although few large bromeliads), tree ferns, and a dense understory. I got 2 B. hartwegi (1 on fern, 1 on ground) w/ an unusual orange (vs. cream) ventral coloration; feet also look a little different to me (very pointed 3rd toe on hand); they got 1 more. I found 5 Crangosta + 2 Anolis notablenis. Weather was cloudy + calm after stormy afternoon.

Long

12

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Harto, Sean
2013

Journal

High point on road from Cajilla to Tapalapa, Chiapas, Mexico
Aug. 21 We prepped specimens in the morning, then drove to Tapalapa and on a road to Mazun looking for streams to walk at night. Found a few good ones and drove to Cajilla to refill water. Stopped on the way back and opened logs in pine-liquidambar forest for ~30 min, found 1 Mesaspis. Searched in roadbank at intersection w/ Octapee road for ~15 min w/o success. Came back to camp, waited while it rained from ~19:00-21:00, then went out in light rain to streams on road from Tapalapa to Mazun from 21:15-00:45. At first stream, 2.5 km from hwy, found 3 Electrola ixil (heard more calling) + 6 Andis hobartsmithi sleeping on leaves. One stream went uphill while another formed a mossy waterfall where I focused my attention. Rain slowed and eventually stopped, becoming misty. Hard to see forest in the dark, but it looked not so bad and seemed to be cloud forest. At the second stream, 1.7 km from hwy, there was a path that passed through forest w/ mossy walls. Doby + I focused on this while Jorge + Omar looked in stream, where many P. ixil were calling. I found 3 Bolitoglossa occidentalis (?), a Graugaster, 2 A. hobartsmithi, and 2 P. ixil. Doby got a Graugaster + Omar + Jorge got a P. ixil and an Andis. This area looked excellent for Cryptotriton alvarezdeltoroi based on its resemblance to the type locality in the nearby Sierra Negra. Drove back to camp and ate. I searched around camp from 02:15-03:00 and found a Bolitoglossa hartwegi in the small forest patch behind my tent.

The first part of the paper is devoted to a discussion of the
 various methods which have been proposed for the determination of
 the rate of reaction. It is found that the most reliable method is
 the one which involves the measurement of the change in the
 concentration of the reactants or products. This method is
 applicable to all reactions, and it is the only one which gives
 a direct measure of the rate of reaction. The other methods
 which have been proposed are all indirect, and they are therefore
 subject to many uncertainties. The most common of these methods
 is the one which involves the measurement of the change in the
 volume of the reaction mixture. This method is only applicable
 to reactions in which there is a change in the number of moles
 of gas. It is also subject to many uncertainties, and it is
 therefore not recommended. The method which involves the
 measurement of the change in the color of the reaction mixture
 is also subject to many uncertainties, and it is therefore not
 recommended. The method which involves the measurement of the
 change in the refractive index of the reaction mixture is also
 subject to many uncertainties, and it is therefore not recommended.

Rovito, Sean
2013

Journal

High point on road from Tapalapa to Cosquilla, Chiapas, Mexico
Aug. 22 Slept in late anticipating a long night of searching. Dressed specimens in afternoon. Got cloudy, cold, & windy around 14:00 and rain threatened but never arrived aside from a brief sprinkle. At 20:00, we headed down to the final stream we searched last night & started looking at 20:30. Conditions were fairly dry and I got only Anolis + Crangosta. Omar found a Cryptotriton shrevei on a root on the bank beside the trail. It is one of the smallest Cryptotriton I've seen - impressed he noticed it. He, Dary, & Jorge also got 2 B. hartwegi, 4 B. rufescens, a P. ixil, and a Crangosta. We searched until 23:10, then went back to camp where I found a B. hartwegi on a bank. We drove on to a point 1.8 Km W of camp and found 2 Crangosta + 1 B. occidentalis on a vegetated roadbank. This might be the highest recorded elevation for B. occidentalis; this area also seems to be the only place where the two species (B. occidentalis + B. hartwegi) are found in sympatry. Searched the roadbank from 23:55 - 00:25, then drove back to camp and drank some celebratory tequila for the Cryptotriton.

Aug. 23 We went to Tapalapa w/ Hector Olguin in search of a cave that the radio tower guard told us about. The presidente municipal sent us to the small village of San Augustin, ~20 min by road from Tapalapa, ^{where} we spent almost an hour searching for a guide. We finally found a man + his son, who took us downhill through corn fields, scrub, and pine-oak forest to the cave, which had a small entrance but widened slightly inside so that we could almost walk while crouching, although I had to crawl through most of it. The cave walls were dry; not much

Kanto, Sean
2013

Journal

High point on road from Tapachula to Copilla, Chiapas, Mexico (cont.)
Aug. 23 ... chance of salamanders. Saw 1 Lepidophyma in a crack but couldn't get it out. One had multiple passages; I took the main one to a point where a stream entered from above & completely filled the passage w/ water. Saw a few bats; Hector sealed a Desmodus out of the cave, put a net across the entrance, and caught it on its way back in. We went back to camp and prepared some specimens. It started raining around 20:00. We drove down to the trail where we found the Cryptotriton yesterday & searched in a moderate rain from 21:50 - 23:40; rain became lighter and stopped around 22:30. I got a B. occidentalis, a B. hartwegi, and a Desmognathus chameuse and they got a Plectrohyla ~~adrianae~~ (heard many more, plus a Desmognathus calling [I think]). Drove back to camp & searched from 00:10 - 02:05 along the trail through the cloud forest. Omar & Jorge found a Tropidodipsas ^{fischeri} ~~adrianae~~ on the trail. Jorge got 2 Bolitoglossa and I got another 3; all but 1 were climbing on vegetation, and the other was on the trail. Having seen B. hartwegi (I think) earlier in the evening, I think there are a different species. In addition to the orange ventral mottling, they are larger and have huge, very webbed feet w/ distinct triangular toes. The males have an enormous mental gland that covers about $\frac{1}{3}$ of the gular region. If this is a new species, it probably has a very restricted distribution; not many mountains $> 2000m$ in this part of Chiapas.

Aug. 24 Spent much of day prepping specimens; salamanders took forever to die in chloroform for some reason. At 18:30, walked down into forest to see it by day. One of best-conserved forests I've seen in Mexico - no apparent logging, many huge trees. Lots of Lodocarpus, along w/ other broadleaf

Kanto, Sean
2013

Journal

High point road from Tapalapa to Capilla, Chiapas, Mexico (cont.)
Aug. 24 ... trees and lots of ferns (including tree ferns). Mostly very steep w/ few logs; we couldn't really search by day. At nightfall, we drove to the intersection w/ road to Ocoatepec and searched on roadbanks for ~15 min but saw nothing. We then searched from 20:50 - 11:25; I went into the forest & got 3 Bolitoglossa hartwegi (2 on vegetation, 1 on ground) while the others (including Anna Hiller) looked on road banks and got nothing. The day was cloudy w/ intermittent light rain and the night was fairly cold (maybe 13°C) w/ no rain but lots of mist.

Risto, Sean

2013

Journal

Oct. 23

Sierra de los Cuchumatanes, Guatemala

One of Nona Norenburg's master students, Silas Ellison, and I flew from SFO to Guatemala on Oct. 21. Bad flight - delayed, then canceled, rerouted to Mexico City, delayed + almost missed connecting flight. Met Fabiola Parra in MEX airport + spent night in Guatemala City. Yesterday morning, met Carlos Vasquez at MUSH NAT. Drove to Huehuetenango, and then on toward San Juan Chery. Took a turnoff down towards Rio Quiché and spent night in some really nice, newish cabins in San Francisco las Flores. Looked for ~30 min for frogs on path to Rio Quiché, but habitat was terrible (mostly corn, no original or even secondary forest) and river was raging. Lots of rain and fog; got 1 Anolis (saw 2 more). This morning, drove to San Juan Chery and took road past cemetery to Alda Canchic. Also no good forest here, but got 1 B. lincolni + 1 B. xibalba under rocks. Along road back, got 8 more B. lincolni under rocks over 2 Km (2 more spots). Most were in a place w/ tons of rocks where they had either removed dirt + rock or there had been a landslide long ago. Took swabs for microline work, then headed back towards junction w/ road to Todos Santos Cuchumatán. A few Km N of junction, met people from the municipality + drove 14.4 Km W to Puerto del Cielo. Beautiful, mossy fir forest among the nicest I've seen here. Everything covered in thick carpet of moss. Searched for ~10 min (6 people) + got 10 P. rex. Took microline swabs, drove to Huehuetenango + stayed at Hotel del Prado.

Kanto, Sean
2013

Journal

Montañas de Cuico, Herts. Huehuetenango, Guatemala

Oct. 24

We had planned to spend two days in the Montañas de Cuico, but decided to visit both sites in one day. Drove out of El Raposo, near La Esperanza, up to La Cumbre, the type locality of Dendrobates nabbi. It was foggy and raining lightly to moderately. We searched for approximately 1.5 hr. I got a D. nabbi in a big bromeliad, opened ~10 more but found nothing else (they had lots of water in them). Daby + Carlos got 2 B. lineolae under small piles of wood. We drove down + on to Cuico, where we got a room + took microbore probes. Drove up to San Francisco El Retiro in the rain, arriving around 20:00; paid Q250 for a permit to enter site. Drove up to same sinkholes we had visited in June. Got stuck several times in mud; eventually made it up w/ chains. I got 3 P. rex in one sinkhole (saw 1 more) and Carlos got 4 in the sinkhole w/ an accessible cave at the bottom where we saw lots of salamanders in June. Collected only 2 but swabbed all of them. Drove down to Cuico and spent the night at Hotel Perla.

Cerro Majatz, Chiapas, Mexico

Oct. 26

Yesterday, we drove from Cuico to La Mesilla + crossed the Mexican border. Went to Comitán, tried + failed to find liquid nitrogen, and ate in the plaza. Drove to Motozintla in a heavy rain + spent the night. This morning, got up late (forgot about time change due to daylight savings time), dried stuff out, + drove up Cerro Majatz, arriving around 13:00. Weather was misty w/ light rain when

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Raúl, Sean
2013

Journal

Cerro Mozotal, Chiapas, Mexico (cont.)

Oct. 26

... we arrived and gradually cleared up over the course of the afternoon. We searched for a few minutes around the summit. I got a Bolitoglossa franklini nigroflavescens under a stone and an chacilius under another. Silas got another Bolitoglossa in a log, and Gary found a Pseudoeurycea cf rex with a clutch of eggs in a log. Took microtome swabs of salamander + eggs and collected it to write a note (we think nothing known about reproduction of this species). Went down into the very mossy pine forest where I found many Pseudoeurycea in June 2012 at 14:00. We quickly collected 10 of the smaller species (P. cf rex), all in mossy, rotten logs; a few were just under the moss. Carlos got a really big male of what I think is the other species (P. cf goebeli) under moss on a log; it is a uniform dark grey dorsally and grey ventrally w/ some white spotting. It doesn't have spots on gular region like the other species and is apparently much bigger (even than the females of P. cf rex). Searched until 15:00, then ate lunch. Searched along road for ~45 min walking down from summit. Silas got 2 more Bolitoglossa under the same rock. We walked back, did microtome swabs, and then searched along the roadbank from the summit downward from 18:40-17:25. Carlos + I each got a Bolitoglossa on the roadbank. We drove down to the El Puente - Mozotal road and searched along 3 streams for Eleutherodactylus. The first was small and heavily vegetated w/ secondary growth, and the second bigger but w/ less vegetation; found nothing along either. Stopped at a third

Rovito, Sean
2013

Journal

Cerro Motal, Chiapas, Mexico (cont.)

Oct. 26 ... stream 15.3 Km (by rd) from the main highway. ctt passed through forest and we quickly (~15 min) found 7 Plectrohyla lucertosa; surely could have found many more. Drove back to Motozintla, took remaining microbrome subsals, fixed frogs + had a late dinner of quesadillas. I no longer have any doubt that the Pseudoeurycea on Motal are 2 distinct species. The dex-like one is much smaller than P. dex I've seen elsewhere, especially those we just saw at Puerto del Cielo and Cúcher. I also ~~was~~ noticed the gular spots much more in this population; will have to look at those from elsewhere.

Unión Juárez, Chiapas, Mexico

Oct. 27 Drove from Motozintla to Unión Juárez, on the slopes of Volcán Tacaná. After lunch, tried to go up to look for salamanders but took wrong road + found it blocked. Went back and fixed salamanders from yesterday. ctt rained briefly but heavily in the afternoon. Around 20:00, drove to same spot as in afternoon, at the edge of Colonia Jalquian, and walked up a road <1 Km to a small stream that passes through patchy/secondary cloud forest. Carlos found a Braungastor stuarti along the way. We got 6 Plectrohyla matudai on vegetation along the stream. Walked up a path through mostly open scrubby vegetation near forest. I got an Anolis + Carlos + Abby got a small Braungastor. Looked fine for salamanders but saw none. Searched 20:45-22:00. Drove up towards Tacaná but road was closed for construction.

Let us suppose that the system is in a state of equilibrium at a temperature T . The probability of finding the system in a state with energy E is given by the Boltzmann factor $e^{-\beta E}$, where $\beta = 1/(k_B T)$ and k_B is the Boltzmann constant. The partition function Z is defined as the sum of the Boltzmann factors over all possible states of the system:

$$Z = \sum_i e^{-\beta E_i}$$

where the sum is over all states i . The average energy $\langle E \rangle$ of the system is then given by:

$$\langle E \rangle = -\frac{1}{Z} \frac{\partial Z}{\partial \beta}$$

For a system of N independent particles, the partition function is the product of the partition functions for each particle. If the energy of a single particle is E_i , then the partition function for N particles is:

$$Z_N = Z^N$$

where Z is the partition function for a single particle. The average energy of the system is then:

$$\langle E \rangle = N \langle E_i \rangle$$

where $\langle E_i \rangle$ is the average energy of a single particle. The entropy S of the system is given by:

$$S = k_B \ln Z_N$$

where k_B is the Boltzmann constant. The free energy F of the system is given by:

$$F = -k_B T \ln Z_N$$

where T is the temperature. The Helmholtz free energy A is given by:

$$A = F - TS$$

Rovito, Sean
2013

Journal

Oct. 29

San Marcos area, Depto. San Marcos, Guatemala

Yesterday, we drove down to Tapachula and searched in vain for liquid nitrogen. Dropped Gabriela off at the airport and drove to the border at Jalimán. Found out that to get the deposit back for the temporary vehicle import, we had to drive to a post on the highway from Huixtla to Orizaba. Finally got that done, crossed border and drove to San Marcos. Stayed at the Hotel Santa Barbara near the central plaza; a little pricey but really nice. We went out on the road past the Boqueron school near Esquipulas Palo Verde (the "South Transit") and searched along the roadcut for ~20 min (23:00 - 23:20). Carlos found a Bolitoglossa that looks to me like a franklini x lineolae hybrid, as well as a Craugastor. The weather was misty but not raining. This morning, we had breakfast and drove to San Rafael Pie de la Cuesta, where we got permission to work in El Refugio del Quetzal, near Alder la Fraternidad; at night. Drove back to San Marcos and out past Chichiguan to a small patch of fir forest near where we have found Pseudoeurycea rex in the past. Searched from 14:15 - 16:15. I got 3 P. rex; all were in very decayed logs which were partly buried and/or covered w/ moss. Very few logs here; I think people use all the wood for cooking or building. Carlos got a tiny P. rex as well. Drove back to San Marcos for dinner, then to the quetzal reserve. Searched along trails in what looked like pretty nice cloud forest. I got a Craugastor stuarti and 2 Bolitoglossa (flavimembra + engelhardti?). Carlos + Julius got a B. flavimembra, 4 Phyllorhiza hartwegi, 2 P. sagorum, 3 P. ventralis. Weather was misty but not raining.

Krato, Sean

2013

Journal

High point on Panamerican Hwy, Depto. Solá, Guatemala
Oct. 30 Left San Marcos after breakfast and drove past high point on CA-1. Turned SW down a road to Caserio Juan La Cruz and searched in road bank for ~ 45 min. Silas + I found 3 Sceloporus between us (not collected) and Carlos got a Bolitoglossa rostrata. The habitat was moist but seemed less wet than other areas we'd searched this week. Lots of traffic on road; got some weird looks and decided to stop searching. Drove back to Guatemala City and spent night at Hotel Chelbalanque.

Sean M. Rovito

2013

Photo Log #101-0274 to 101-1771

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Rovito, Sean
2013

Photo Log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
6/3/13	101-0274-276	SMR2057, <u>Sceloporus smaragdinus</u>
	277-284	CRVA3248, <u>Mesaspis moreletii</u>
	286-307	SMR2060, <u>Bolitoglossa morio</u>
	308-314, 397-405	working in camp, San Francisco el Retiro
	315-325	SMR2064, <u>Thamnophis fulvus</u>
	327-335	SMR2059, <u>Ceraphron godmani</u>
	337-360	SMR2066, <u>Pseudoeurycea rex</u>
	362-382	SMR2067, " "
	384-396	SMR2068, <u>Bolitoglossa morio</u>
	406-422	Cueva la Sepultura, Montañas de Cuilco
6/4/13	423-426	landscape, San Francisco el Retiro
	427-431	view at sinkholes, " "
	433	JL202, <u>Myotis</u>
	435-452	CRVA3257, <u>Dendotriton</u> sp. nov.
6/5/13	453-456	" "ventral
	457-461	SMR2072, <u>P. rex</u> , ventral
	462-466	camp, San Francisco el Retiro
	467-497	SMR2076, <u>Dendotriton</u> sp. nov.
	505-526	SMR2077, " "
	527-531	SMR2076, " "ventral
	532-536	SMR2077, " "
	537-541	arrival in La Crinolina, Huehuetenango
6/7/13	542-543, 547-549	CRVA3275, <u>Micrurus diastema</u>
	544	leafcutter ants, La Crinolina
6/9/13	550-557	SMR2083, <u>Craugastor</u>
	558-583	SMR2089, <u>Plectrohyla ixil</u>

Rovito, Sean
2013

Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
6/9/13	585-602	SMR2085, <u>Bolitoglossa cuchumatana</u>
	603-615	SMR2090, <u>Craugastor</u>
	616-629	SMR2087, <u>Anolis</u>
	631-637	CRVA3280, <u>Dryadophis</u>
	638-639	SMR2085, <u>B. cuchumatana</u> , ventral
6/11/13	640-647	camp, Cruz Malin
	648-656, 658	Mauricio w/ Emerald Toucanet
	657, 659-666	views from camp, Cruz Malin
6/12/13	667-691	Forest, Cruz Malin
	692-697	Jerome w/ <u>B. rufescens</u> (SMR2101), La Crinolina
	698-713	La Crinolina * views from town
6/13/13	714-718	" "
	719-730	Rio Quisil crossing, below La Crinolina
6/15/13	731-733	Volcán Tecuamburro, views from geothermal area
	734	camp, Volcán Tecuamburro
6/16/13	735-761	SMR2102, <u>Agalychnis moreletii</u>
	762-773	CRVA3289, <u>Rana maculata</u>
6/17/13	774-775, 845-848	camp, Volcán Tecuamburro
	776-797, 838-844	SMR2106, <u>Bolitoglossa</u> , dorsal + ventral
	798-815	CRVA3293, " "
	817-830	SMR2108, <u>Corytophanes percarinatus</u>
	831-837	SMR2112, <u>Bufo ~~craugastor~~ canaliferus</u>
6/18/13	849-859	CRVA3302, <u>Craugastor</u>
	860-872	SMR2114, <u>Anolis macrophallus</u>

Rovito, Sean
2013

Photo Log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
8/14/13	1132-1138	SMR 2135, <u>Craugastor loki</u>
	1139-1147	SMR 2138, <u>Lepidophyma tuxtlae</u>
	1148-1149	camp, above Ejido Constitución
8/15/13	1150-1166	SMR 2133, <u>Micrurus elegans</u>
8/16/13	1168-1204	SMR 2164, <u>Anotheca spinosa</u>
	1205-1228	SMR 2166, <u>Bolitoglossa platydoctyla</u>
	1229-1231	camp, Ejido Constitución
	1233-1237	SMR 2177, <u>Craugastor</u>
	1238-1242	collared frog, Constitución
8/17/13	1243-1252	SMR 2183, <u>Ecnomiophyla miotympanum</u>
	1255-1279	SMR 2186, <u>Craugastor alfredi</u>
8/18/13	1280-1285	forest, Constitución
8/20/13	1286-1289	Tapalapa
8/21/13	1290-1300	SMR 2210, <u>Cerrophidion gadmuri</u>
	1301-1306	SMR 2209, <u>Anolis hobartsmithi</u>
	1307-1312	SMR 2208, "
	1313-1318	SMR 2203, <u>Craugastor</u>
	1319-1324	forest + camp, above Tapalapa at antennas
8/22/13	1325-1326	Marco, camp above Tapalapa
	1327-1331	forest + camp + views, above Tapalapa at antennas
	1332-1353	SMR 2212, <u>Bolitoglossa hartwegi</u>
	1354-1357	" " , ventral
8/23/13	1358-1393	SMR 2246, <u>Cryptotriton alvarezdeltorai</u>
	1394-1401	SMR 2247, <u>B. hartwegi occidentalis</u>
	1402-1404	SMR 2249, <u>B. occidentalis</u>
	1405-1411	SMR 2259, <u>Mesaspis moreletii</u>

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Rovito, Sean
2013

Photo Log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
8/24/13	1412-1415	Hector w/bat in net, cave, San Agustín, Tapalapa
	1417-1419	SMR2246, <u>C. alvarezdelarrai</u> , ventral
8/24/13	1421-1430	SMR2267, <u>Tropidodipsas fischeri</u>
	1431-1434	SMR2268, <u>Bolitoglossa hartwegi</u> , <u>occidentalis</u>
	1435-1441	SMR2271, <u>Oreomanophis chameleone</u>
	1442-1446	SMR2262, <u>Bolitoglossa</u> cf <u>hartwegi</u>
	1461-1490	Tapalapa cloud forest reserve
	1492-1494	SMR2272, <u>Bolitoglossa</u> sp., in wild
	1506	SMR2273 or 2274, "

Rovito, Jean
2013

Photo log

<u>Date</u>	<u>Photo #</u>	<u>Description</u>
10/23/13	101-1565-1573	SMR2283, <u>Pseudoeurycea rex</u> , Puerto del Cielo
	1574-1577	CRVA3356, <u>Bolitoglossa lincolni</u>
	1579	CRVA3355, <u>Bolitoglossa xibalba</u>
10/26/13	1580-1623	SMR2286, <u>Dendrobates rabbi</u>
	1624	log where SMR2291 found w/ eggs
	1625-1636	SMR2291 w/ eggs, in situ, Cerro Mozotal
	1638-1639	swabbing, Cerro Mozotal
10/27/13	1640-1672	SMR2290, <u>Pseudoeurycea</u> cf. <u>goebeli</u>
	1673-1685	SMR2299, <u>Plectrohyla lacertosa</u>
	1687, 1691	SMR2290, ventral
10/29/13	1692	fir forest near Ixchiquan
	1693-1697	Silas Carlos, " "
	1698-1700	Volcán Tacaná from near fir forest
	1701-1707	Tajumulco + Tacaná from hwy near Ixchiquan
10/31/13	1708-1720	SMR2306, <u>Pseudoeurycea rex</u>
	1721-1732	CRVA3397, <u>Bolitoglossa castrata</u>
	1734-1737	SMR2305, <u>B. lincolni</u> x <u>franklini</u>
	1738-1753	SMR2313, <u>Craugastor stuarti</u>
	1754-1761	SMR2312, <u>Plectrohyla matudai</u>
	1762-1765	SMR2311, <u>P. sagorum</u>
	1766-1771	SMR2309, <u>P. hartwegi</u>

